

JULY 1957

VOLUME 3 • NUMBER 7

# CONSTRUCTION REVIEW

CH 1.20/3

*Featured in this issue . . .*

## RESIDENTIAL RENTS IN 1956

- *Expenditures*
- *Starts*
- *Materials*
- *Awards*
- *Permits*
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\*In this issue, national estimates of employment, hours, and earnings are revised to new benchmark levels--beginning with 1955 data.

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CONSTRUCTION REVIEW is for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Subscription price per year--\$3 domestic; \$4 foreign. Single copies, at 30 cents each, may be purchased from any of the Department of Commerce Field Offices or the Bureau of Labor Statistics Regional Offices.

*Use of funds for printing this publication approved by the Director of the Bureau of the Budget (December 16, 1954).*

## At a Glance

**CONSTRUCTION ACTIVITY IN JUNE**--New construction outlays rose seasonally in June (by 8 percent) to \$4.4 billion--slightly above the June record of 1956. Expenditures this past June advanced to an alltime high for residential additions and alterations, public utilities, and public schools, and were at a new June peak for private industrial buildings, offices and warehouses, highways, and sewer and water facilities. The \$15.3 billion private total for the first half of 1957 almost equaled the figure for the same 1956 period, as declines in new dwellings, stores, and farm building were nearly offset by over-the-year advances for other private construction. Public outlays were up 11 percent this year from the first half of 1956. All major types of work except military facilities contributed to the increase.

**HOUSING STARTS IN MAY**--Nonfarm housing starts rose more than seasonally in May by 11 percent to 102,000. This figure was 10 percent below a year earlier, however, and was the lowest for any May since 1951. Private units begun this May (96,000) were at a seasonally adjusted annual rate of 990,000--an increase of 5 percent over the April rate and 12 percent above the 8-year low of March. For the first 5 months, the 1957 starts total (405,800) was about 15 percent below the comparable 1956 figure, with private housing accounting for the entire drop (down 17 percent to 384,200 units). This year's January-May total for public starts (21,600) represented a 4-year high for the period.

**FHA-VA ACTIVITY IN MAY**--Housing begun under FHA programs increased 24 percent in May, but volume for both May and the first 5 months was the smallest since 1946. VA-assisted starts, after sizable advances in March and April, declined 11 percent to the lowest May figure since 1952. For the first 5 months, combined FHA-VA starts dropped 42 percent from 1956 to 1957, and their share of all private starts fell from 42 to 30 percent. Applications for FHA mortgages (excluding armed services, Capehart, housing) edged down from April to May solely because of a drop in the rental housing sector, and VA appraisal requests declined 14 percent. From a year ago, for the first 5 months, dwelling-unit totals in FHA applications and VA appraisal requests were down 20 and 51 percent, respectively.

**NONFARM MORTGAGE RECORDINGS IN APRIL**--The value of nonfarm mortgage recordings advanced 6 percent in April to \$2,044 million--the highest monthly total since last November, but 10 percent below April 1956. All institutional lenders shared in the increase over the month and in the decline from a year ago. Mortgages recorded by individuals were at an alltime April high this year. This year's volume through April (\$7.7 billion) was down 11 percent from the first 4 months of 1956, reflecting declines for the institutional groups--that ranged from 5 percent for savings and loan associations to 25 percent for commercial banks. Over the same period, lending activity of individuals rose 3 percent.

**PUBLIC CONTRACT AWARDS IN APRIL**--After a sharp rise in March, the value of public contract awards declined 13 percent in April to \$958 million. This figure was slightly above the year-ago total, and volume for the first 4 months of 1957 (\$3.8 billion) was 14 percent greater than for the comparable 1956 period. The March-to-April decrease was mainly in toll roads, schools, and federally owned housing and airfields. Totals for the first 4 months show that contract values expanded from 1956 to 1957 for most major kinds of public work except sewer facilities, which dropped 41 percent over the year. The largest gains were in highway awards (particularly federally aided State projects), and in Federal awards for military housing, conservation and development, and airfields.

**CONSTRUCTION CONTRACTS IN MAY AND JUNE**--The value of construction contracts for the first 5 months of 1957 as reported by the F. W. Dodge Corporation showed a moderate rise from the same 1956 period. Residential awards were still below last year's total by about 5 percent. The utilities group, on the other hand, more than offset these declines by awards which exceeded last year's 5-month total by two-thirds. Both nonresidential building and public works awards showed small gains in 1957.

Reports of the Engineering News-Record on the value of large construction contracts awarded during the 12 months ending in June continue to indicate a downtrend



## At a Glance

in the 12-month total for the private sector, but this was virtually offset by an up-trend in the public sector. Awards for highways and bridges, which amounted to over a sixth of the overall total in the last 12 months, were the major source of strength of public construction.

**CONSTRUCTION COSTS IN MAY**--The Department of Commerce composite cost index rose in May from 135 to 137 percent of the 1947-49 average. This 2-point increase represents the largest 1-month change that has taken place since 1950. All the component indexes contributed to this movement.

**BUILDING MATERIALS PRICES IN MAY**--Wholesale prices of many important building materials showed no change from April to May, and fluctuations for other items generally were small and offset one another. The index for all materials was the same in both months, at 130.7 (1947-49=100), and was 1 percent below the May 1956 index. From April to May, prices rose fractionally for prepared paint, softwood plywood, sand, gravel, crushed stone, and concrete products, and advanced 3 percent for door locks and asphalt roofing--reflecting seasonal demand, and in some cases higher production costs. Offsetting these increases, prices for most types of lumber declined fractionally in May; prices for galvanized sheets and pipe declined with the lower cost of zinc; and cast-iron soil pipe prices followed the trend of lower quotations for scrap iron.

**CONSTRUCTION MATERIALS OUTPUT IN APRIL**--Output of all major construction materials rose from March to April. Leading all other groups, asphalt products registered a 26-percent increase in output. Steel shipments showed the smallest increase, less than 1 percent. Output levels of most materials were below those of April 1956. Only asphalt products and the paint, varnish, and lacquer group were above their values of last year. Despite the widespread increases from March to April this year, there were still substantial lags compared to a year ago--17 percent for millwork products, 11 percent for clay construction products, and 8 percent for portland cement.

**CONTRACT CONSTRUCTION EMPLOYMENT IN MAY**--A seasonal advance from April brought employment in contract construction to an alltime May high of 3,066,000--an increase of 96,000 over May 1956. The rate of gain from last year had narrowed, however, from about 8 percent in the first quarter to 6 percent in April and 3 percent in May. Data available through April indicate continued strength in most of the Northeastern States, when compared with early 1956 months, and mixed trends among the States comprising other regions. Of the 9 States reporting 100,000 or more contract construction workers this April, increases over April 1956 ranged from 5 to 8 percent in Florida, New Jersey, New York, Ohio, and Illinois. Little change occurred in California and Texas, and a 4-percent decrease was reported for both Michigan and Pennsylvania.

**HOURS AND EARNINGS IN APRIL**--Weekly earnings in contract construction remained about the same from March to April, at \$104.14--reflecting relative stability in the workweek, at 36.8 hours. Weekly pay this April was \$5.78 above a year ago, and average hourly earnings averaged 15 cents more because of advances in basic wage rates, as the workweek was virtually unchanged. Among the major types of contractors, differences in the workweek from a year ago were small--with a tendency toward slight expansion, especially in the special trades and on highway work. A slight decline was evident in hours worked on nonbuilding construction other than highways.

**APPRENTICES IN BUILDING TRADES, 1956**--The number of registered apprentices employed in the building trades increased 11 percent between 1955 and 1956 to 112,500. This gain was shared by all but five States and by each of the major trades except carpentry. Increases in apprenticeship volume were largest in the trowel trades (42 percent), and in the sheet metal and electrical trades (about 10 percent). Apprenticeship employment in carpentry was about the same in both years, but this trade held its place as the most important employer of apprentices--not only in construction but also in relation to the total of those employed in all apprenticeable trades in the United States.

# Residential Rents in 1956

JOSEPH H. FREEMAN\*

The annual index of residential rents in the United States<sup>1</sup> rose 1.8 percent from 1955 to 1956, continuing a trend which has been uninterrupted for more than a decade. In both 1955 and 1956, however, the rate of increase was substantially lower than in any of the previous 8 years. This deceleration of the rate of increase continued in the early months of 1957. The rent index showed no change for January and February and then edged upward 0.1 percent in each of the next 3 months.

Rents were held relatively stable by rent controls during World War II and did not rise steeply until after the first relaxation of controls in 1947. Hence, when measured against pre-World War II (1939) levels, the rise in rents through 1956 was only 53 percent, in contrast to nearly 96 percent for the Consumer Price Index (CPI) as a whole, of which rents comprise one part. The CPI had advanced steadily during the war (see chart). However, from June 1950, just before the Korean outbreak, to the end of 1956, the residential rent component increased almost half again as much as the CPI (23.5 percent as against 15.9 percent). The 1.8-percent rise in rents, compared with the rise of 1.5 percent in the CPI in 1956, represented the smallest margin of increase in the annual rate of change in the rent indexes over the rate of change in the CPI during the past 5 years (table 1).

During 1956, rents were decontrolled in 2 more of the 20 large city areas for which individual rent indexes are published (table 2). These were Baltimore (in March) and Philadelphia (in December). The New York area (which includes Northeastern New Jersey) is the only one with rent controls still in force in 1957.

## Rents in Individual Areas in 1956

The continued uptrend in the national rent index reflected increases during 1956 in the indexes for each of the 20 city areas. The largest rise occurred in Boston where the index rose 5.9 percent, registering the biggest annual average increase in that city in more than 30 years. This rise followed the decontrol of rents in Boston in December 1955--the effects of which were felt during the early months of 1956.

Except for Boston, the most substantial increases continued to occur in the Midwest, where, in general, the rates of increase and the index levels following decontrol have been consistently higher than for the reporting areas in other regions. Cleveland, Chicago, and Minneapolis, which were all decontrolled in July 1953, registered increases of 4.4, 3.5, and 2.9 percent, respectively, in 1956. Cincinnati (decontrolled in May 1953) and Detroit (decontrolled in October 1952) had increases of 2.7

TABLE 1.—ANNUAL AVERAGE CHANGES IN RENTS AND ALL ITEMS IN CONSUMER PRICE INDEX, 1947-56<sup>1</sup>

Year	Rent		CPI (All items)	
	Index (1947-49=100)	Percent change from prior year	Index (1947-49=100)	Percent change from prior year
1947.....	94.4	+3.3	95.5	+14.5
1948.....	100.7	+6.7	102.8	+7.6
1949.....	105.0	+4.3	101.8	-1.0
1950.....	108.8	+3.6	102.8	+1.0
1951.....	113.1	+4.0	111.0	+8.0
1952.....	117.9	+4.2	113.5	+2.3
1953.....	124.1	+5.3	114.4	+ .8
1954.....	128.5	+3.5	114.8	+ .3
1955.....	130.3	+1.4	114.5	- .3
1956.....	132.7	+1.8	116.2	+1.5

<sup>1</sup> Indexes are averages for 46 city areas included in the Consumer Price Index.

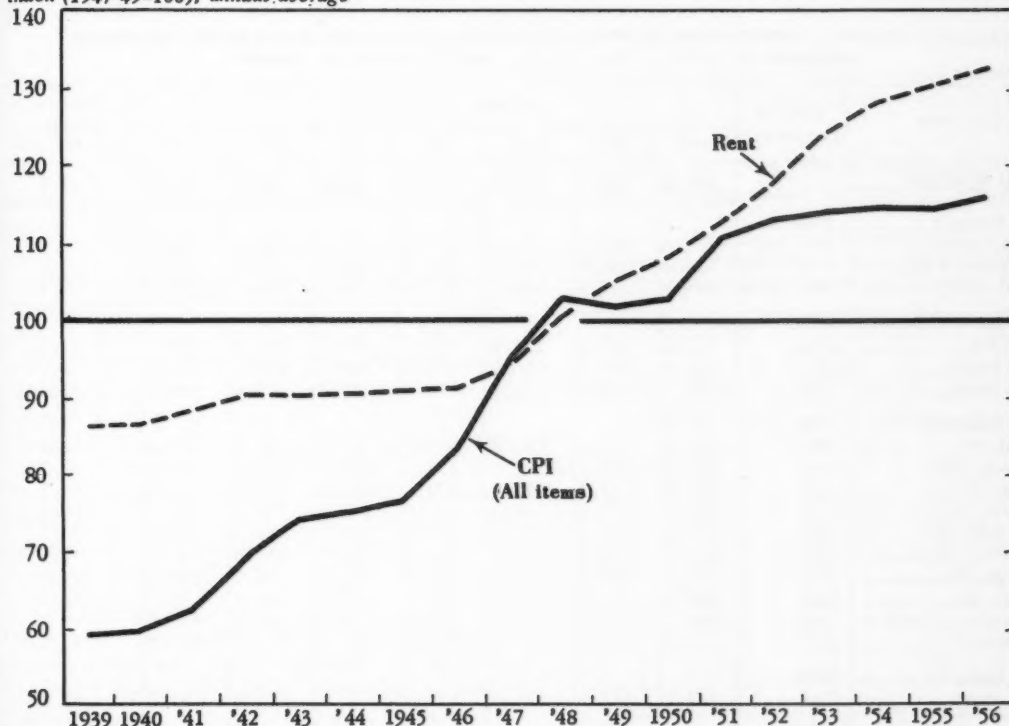
\* Of the Division of Prices and Cost of Living, Bureau of Labor Statistics, U. S. Department of Labor.

<sup>1</sup> The Consumer Price Index published by the Bureau of Labor Statistics of the U. S. Department of Labor measures average changes in prices of goods and services usually purchased by urban families of wage earners and clerical workers. The rent component of the Consumer Price Index is calculated from rental data collected by Bureau agents from tenants in 46 city areas, selected from a stratification of all urban places by population, income, and climate, as representative of all urban places in the United States. The entire urbanized areas are represented in the rent samples of 22 of the 27 index cities for which the Census defined the urbanized area in 1950. In Boston, Chicago, Philadelphia, Pittsburgh, and San Francisco, however, samples are limited to the city proper, plus suburbs considered as parts of the primary housing market. The rental data are collected on a staggered basis every 2 months for the 5 largest areas (New York, Chicago, Los Angeles, Detroit, and Philadelphia) and every 3 months for the remaining 41.

and 2.6 percent, respectively. In addition to Boston, the only large city areas outside the Midwest which had above-average increases in 1956 were San Francisco (2.3 percent) and New York (2.1 percent). In Baltimore, where rents were completely decontrolled in 1956, the rent rise conformed to the United States average. The moderate character of the increase, following the expiration of all controls in March, was due to a series of partial decontrol actions which had been effected during prior years, thus mitigating the impact of final decontrol.

### Consumer Price Index, 1939-56 Rent and All Items

Index (1947-49=100); annual average



Source: Department of Labor.

Although all the individual city area indexes rose during 1956, rents for the great majority of tenants in each area remained unchanged. The increases were concentrated in a relatively small number of units, and their effects on the rent indexes were partially offset by decreases reported by some tenants in each area. Increases and decreases in rent in the 20 areas combined are summarized in table 3.

Rents remained unchanged in 1956 for more than 90 percent of the units surveyed. Increases averaging \$6.86 per month were reported for 7.9 percent of the units, while reductions in rent, averaging \$5.97, affected 1.6 percent. The percent of units having decreases was spread almost evenly over the three rent classes shown in table 3, whereas the percentage with rent increases became higher as the rent scale moved upward.

In general, so far as both increases and decreases were concerned, the higher the rent class the larger the dollar amount of change but the smaller the percent of change. This relationship of absolute and relative changes in rents is also pertinent in interpreting the decelerated rate of increase in the national rent index previously noted.

### Long-Term Influences on Rents

The continuing pressures on the residential rental market result from numerous factors, many of which have their roots in the past. The limited amount of new residential construction during the depression and World War II was responsible for a housing inventory that was woefully inadequate to meet the pent-up demand immediately following the war. The release of millions of servicemen to civilian life and the efforts of "doubled up" families to establish separate living quarters greatly accelerated the rate of new household formation in the early postwar years.

Although there was a gradual relaxation in rent controls from 1947 on, some degree of rent control was continued in most major rental areas until the termination of Federal rent controls in mid-1953.<sup>2</sup> In this interval, spurred by various governmental incentives under the National Housing Act and special

TABLE 2.—INDEXES OF RESIDENTIAL RENTS IN THE UNITED STATES, AND IN 20 LARGE CITY AREAS GROUPED BY DATE OF DECONTROL, ANNUAL AVERAGES, 1950-56

City area	Date of decontrol <sup>1</sup>	Indexes (1947-49=100)							Percent change, 1955 to 1956
		1950	1951	1952	1953	1954	1955	1956	
<b>UNITED STATES<sup>2</sup></b>		<b>108.8</b>	<b>113.1</b>	<b>117.9</b>	<b>124.1</b>	<b>128.5</b>	<b>130.3</b>	<b>132.7</b>	<b>+1.8</b>
<b>Group I.....</b>	<b>1949-50</b>								
Houston, Texas.....	Oct. 1949	126.4	131.1	134.2	137.4	138.7	138.1	138.5	+ .3
Los Angeles, Calif. ....	Dec. 1950	114.0	125.4	130.6	135.6	138.7	139.5	141.8	+1.6
Portland, Oreg. ....	Dec. 1950	108.2	117.6	124.1	127.4	129.1	130.4	132.2	+1.4
<b>Group II.....</b>	<b>1952</b>								
Atlanta, Ga. ....	Oct.	113.6	117.2	121.4	128.5	131.0	133.5	135.1	+1.2
Detroit, Mich. ....	Oct.	106.3	109.5	116.1	129.7	138.2	141.1	144.8	+2.6
Seattle, Wash. ....	Oct.	109.2	115.1	123.1	131.3	135.2	137.4	139.0	+1.2
<b>Group III.....</b>	<b>1953</b>								
Scranton, Pa. ....	May	107.0	112.0	116.6	119.8	122.9	123.9	125.4	+1.2
Cincinnati, Ohio.....	May	104.8	108.7	112.3	124.7	129.1	132.2	135.8	+2.7
Chicago, Ill. ....	July	109.2	113.3	117.9	130.2	142.7	150.7	156.0	+3.5
Cleveland, Ohio .....	July	107.3	122.1	118.3	129.4	140.6	144.2	150.6	+4.4
Kansas City, Mo. ....	July	112.3	115.9	120.2	127.6	135.0	138.3	139.2	+ .7
Minneapolis, Minn. ....	July	109.7	114.8	119.1	125.0	138.9	141.6	145.7	+2.9
Pittsburgh, Pa. ....	July	105.3	108.5	113.2	118.4	123.2	124.5	125.8	+1.0
St. Louis, Mo. ....	July	106.9	110.5	<sup>3</sup> 115.1	122.8	133.5	136.5	139.5	+2.2
San Francisco, Calif. ....	July	104.6	113.0	118.3	125.3	129.3	132.3	135.3	+2.3
Washington, D. C. ....	July	107.5	112.3	117.7	120.1	123.0	123.5	124.4	+ .7
<b>Group IV.....</b>	<b>1955</b>								
Boston, Mass. ....	Dec.	107.2	111.1	115.6	118.0	121.6	124.8	132.2	+5.9
<b>Group V.....</b>	<b>1956</b>								
Baltimore, Md. ....	Mar.	109.4	113.0	118.0	121.2	124.2	125.9	128.2	+1.8
Philadelphia, Pa. ....	Dec.	105.2	107.2	111.4	113.0	115.2	116.5	118.2	+1.5
<b>Group VI</b>									
New York, N. Y. ....	(4)	104.2	105.9	109.0	113.5	116.6	118.0	120.5	+2.1

<sup>1</sup> Date wartime controls on rents were removed.

<sup>2</sup> Average for 46 city areas included in Consumer Price Index. The United States index is published monthly. Indexes for the 20 large city areas shown above are published bimonthly for the 5 largest areas, and quarterly for the remaining 15, in accordance with their individual collection schedules.

<sup>3</sup> Revised.

<sup>4</sup> Still under control.

programs for veterans, certain offsetting factors came into play which acted as a curb on the upward pressures on rents.

The housing supply was expanded by the construction of more than a million new nonfarm dwelling units per year beginning with 1949 (table 4). New construction in the 8 years, 1949-56, produced

<sup>2</sup> See Trends in Residential Rents, 1950-55, in Construction Review, May 1956 (pp. 4-8).



the equivalent of about a quarter of the entire 1950 nonfarm housing inventory. However, most of this new housing was built for the home-purchase market which was stimulated by a continuing high level

TABLE 3.—RENT CHANGES ON DWELLING UNITS IN 20 LARGE CITY AREAS, BY RENT RANGE, 1956<sup>1</sup>

Rent range	Units having increases			Units having decreases		
	As percent of all units	Average increase		As percent of all units	Average decrease	
		Amount	Percent		Amount	Percent
All ranges.....	7.9	\$6.86	11.4	1.6	\$5.97	9.1
Under \$50.....	6.9	5.86	17.2	1.6	4.88	11.8
\$50 to \$69.99.....	7.8	6.19	11.2	1.7	5.57	9.0
\$70 and over.....	9.1	8.24	9.7	1.6	7.58	7.9

<sup>1</sup> Rent changes in 1956 reported by tenants interviewed in the 20 large city areas listed in table 2.

of prosperity and the expanding housing requirements of growing families. Also, favorable home purchase arrangements enabled many renters to become homeowners. The proportions of nonfarm owner-occupied homes rose from 53 to 59 percent between 1950 and 1956.

The quick turnover of single-family houses built for sale made this type of residential building more attractive to many builders and investors than long-term investment in large rental projects. Rising construction, maintenance, and management costs, which adversely affected the rate of return, were some of the other considerations contributing to the decline in the number of apartments started each year since 1949-50, when activity under the special FHA-mortgage insurance program to encourage construction of rental housing (Section 608 of the National Housing Act) was at its peak. This limited construction of new rental developments has been offset by the shift of single-family homes from renter to owner occupancy, and the total number of rental units has remained practically unchanged since 1950.<sup>3</sup>

Although acting to some degree as a curb, the substantial increase in the supply of housing for sale was insufficient of itself to counterbalance the upward pressures on residential rents. Among these pressures were the continuing population growth and the migration from rural to urban areas, as well as withdrawals and losses from the housing supply. A large unsatisfied demand for low- and moderate-priced rental units, therefore, continued to exist despite the expansion in the total housing supply.

In 1956, not only did the number of new units in multifamily structures decrease for the sixth consecutive year, but also, for the first time since 1953, the total number of new dwelling units registered a decline which extended into 1957. This general decline in homebuilding, in large part, resulted from the tightening of the money market for new residential construction—particularly for low-downpayment, long-term, Government-assisted (VA and FHA) mortgages with fixed interest rates. Along with curtailing the number of houses started, builders also concentrated increasingly on constructing larger, higher priced houses<sup>4</sup> for which conventional financing was more readily available under prevailing credit conditions. These developments tended to limit the choice of homes which moderate-income families could finance and thus sustained pressure on the rental market.

TABLE 4.—NUMBER OF NEW PERMANENT NONFARM DWELLING UNITS STARTED IN MULTIFAMILY AND ALL TYPES OF STRUCTURES, 1947-56

Year	All types of structures		Multifamily structures <sup>1</sup>	
	Number of units (Thousands)	Percent change from prior year	Number of units (Thousands)	Percent change from prior year
1947.....	849.0	+27	74.9	+33
1948.....	931.6	+10	118.1	+58
1949.....	1,025.1	+10	194.3	+65
1950.....	1,396.0	+36	197.1	+1
1951.....	1,091.3	-22	150.8	-24
1952.....	1,127.0	+3	138.6	-8
1953.....	1,103.8	-2	124.5	-10
1954.....	1,220.4	+11	108.3	-13
1955.....	1,328.9	+9	101.7	-6
1956.....	1,118.1	-16	97.5	-4

<sup>1</sup> Buildings containing 3 or more dwelling units.

<sup>3</sup> Housing and Construction Reports, Series H-111, No. 7, Bureau of the Census, U. S. Department of Commerce (p. 3).

<sup>4</sup> See Characteristics of New 1-Family Houses, 1954-56, in Construction Review, April 1957 (pp. 4-10).



## Building in Metropolitan Areas \*

New building construction provides an important clue to changes in land use, and to the central-city and suburban location of economic and community activities in the rapidly growing metropolitan areas.<sup>1</sup>

Data on new metropolitan-area building construction for 1954-56 show significant concentrations of new office buildings, parking garages, and institutional structures (mostly hospitals) in the central cities. The dominance of the central city in this type of construction--often characterized by large, many-story structures--illustrates the intensive use of the relatively scarce land at the metropolitan core. This is revealed further by the fact that, except for industrial buildings, the largest and most costly structures of virtually every kind were more often found in the central city than in the suburbs.

New amusement buildings are a clear example of this phenomenon. In numbers, a great majority of such buildings were suburban construction. About two-thirds of all amusement buildings were scheduled for construction in the rings of metropolitan cities, according to permits issued during 1954-56. In contrast, the traditional entertainment center of the big cities absorbed more of the total building value for these types of structures than did the suburbs. Establishments in the fringe were bowling alleys, drive-in theaters, buildings associated with swimming pools, and the like, whereas the new city structures included frequently such costly types of buildings as large auditoriums and recreation centers.

The most suburban types of new building construction in 1954-56 (in terms of proportion of permit value) were housing and industrial building. They were followed by schools and shopping facilities, which serve the new and expanding communities. All of these, plus some community-type facilities such as religious and institutional buildings, have drifted generally toward increased suburbanization since 1954, in terms of the number of structures built.

Metropolitan areas vary widely in the degree to which each reflects the general pattern of suburbanization or centralization in building construction. Individual areas sometimes run counter to the general tendency, and they differ greatly among themselves in the kinds and degree of suburbanization which they show, according to a detailed study of building construction in 24 selected SMA's for the 1954-56 period.<sup>2</sup>

One or two features alone, such as population density and annexation to the central city, do little to explain the variation between areas. For example, the cities of Milwaukee and Phoenix have annexed fairly sizable territories of relatively low population density since 1950, so that one would expect a relatively lower rate of suburban building activity in these metropolitan areas than in most others. The rate for housing and industrial plants--the most suburban types of building--was somewhat lower than average in Milwaukee, but it was higher than average in Phoenix. Also, the Salt Lake City area, with a central-city density as low as San Diego's, showed relatively much more suburban dwelling-unit construction than the San Diego area, and more than Seattle, where the density of the central city was appreciably greater.

The greatest degree of uniformity in building pattern among metropolitan areas shows up in the tendency for new homebuilding to be concentrated in the suburban and fringe areas. Of the 24 areas for which building activity estimates are now published, San Diego was the only one in which more new

\* Summary of a more comprehensive article of the same title, prepared by Dorothy K. Newman of the Division of Construction Statistics, Bureau of Labor Statistics, and appearing in *Monthly Labor Review*, June 1957 (pp. 689-696). (MLR Reprint No. 2239.)

<sup>1</sup> The suburbs (or ring) are defined, for purposes of this study, as the entire portion of each Standard Metropolitan Area outside of the political boundaries of the central city or cities of each SMA, as delineated in the 1950 Census.

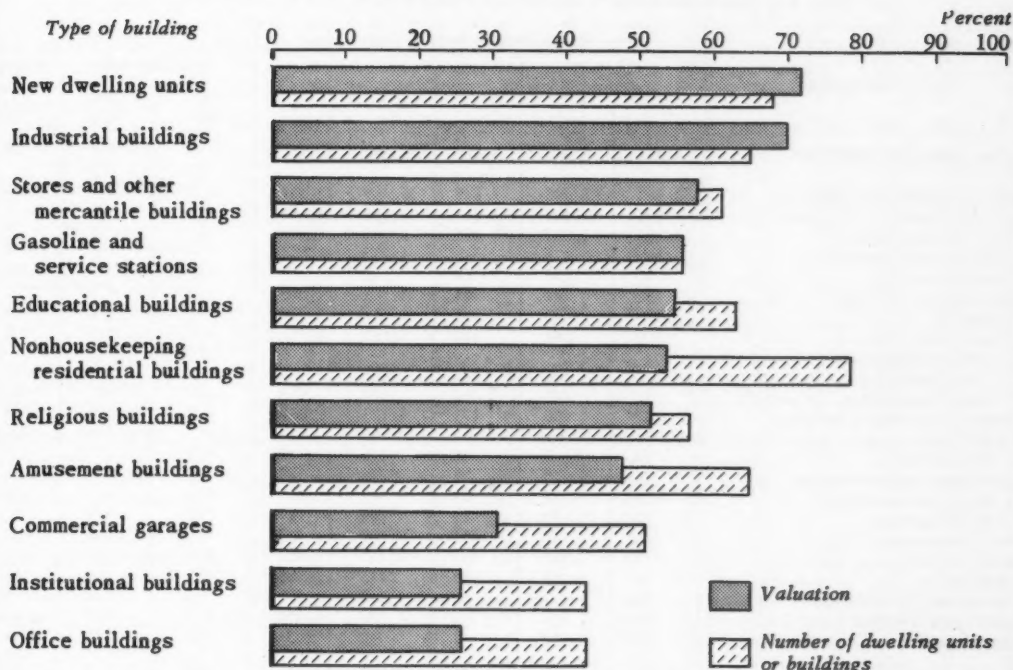
The building-permit activity series, on which the data for this article are based, is available from 1954. For a general history and description of the series, see New BLS Building-Permit Activity Series, in the November-December 1954 issue of *Construction*, a former publication of the Department of Labor, now merged with *Construction Review*. A review of the series for its limitations as well as its usefulness for analyzing metropolitan-area growth and structure is found in *Study of the Structure and Growth of Metropolitan Areas with Building-Permit Statistics*, a paper presented before the 51st annual meeting of the American Sociological Society, Sept. 9, 1956, and processed by the U. S. Department of Labor, Bureau of Labor Statistics.

<sup>2</sup> The 24 areas, and supporting data for 1955-56, are shown in *Construction Review*, April 1957, table C-9a.

dwelling units were constructed in the central city than outside during each of the years 1954-56. In the other areas, with few exceptions, not only was there more residential building outside the central cities, but more took place in the less thickly settled parts of the metropolitan area than in either the central cities or the satellite cities (cities other than the central cities, having 10,000 population or more in 1950). Nevertheless, there was great variation in the degree to which these tendencies were evident among the areas studied.

### Percent of New Building in Suburbs of Metropolitan Areas, 1956

Valuation, and Number of Dwelling Units or Buildings



Source: U. S. Department of Labor.

(Based on building permits issued.)

It would be reasonable to suppose that a combination of known influencing factors could go far toward explaining the difference between metropolitan areas in the extent of their central-city and suburban building construction. A simple test of this thesis was made by relating the extent of suburban housing activity to 14 factors which demographic authorities<sup>3</sup> have concluded are conducive to a high degree of population suburbanization. Housing was used, since it is the type of building most closely related to population movements, and the same factors are likely to influence both population and housing.

The results showed startling deviations as well as close correlations, when the tendency toward population suburbanization was compared with suburban homebuilding in 1954-56. The evidence appears conclusive that a complex and massive amount of information about each area is required to explain variations in suburban building among individual areas—more information than it is feasible to obtain. Regardless of the reasons for difference, however, it is useful to have a measure of them, as well as of the volume, kinds, and direction of building within each area, as a tool in economic and social research, and community planning.

<sup>3</sup> See Donald J. Bogue and Dorothy L. Harris, *Comparative Population and Urban Research via Multiple Regression and Covariance Analysis*, Miami University, Scripps Foundation for Research in Population Problems and University of Chicago, Population Research and Training Center, 1954; and also, Amos H. Hawley, *The Changing Shape of Metropolitan America*, Glencoe, Ill., The Free Press, 1956.

## STATISTICAL SERIES

NOTE: ALL THE STATISTICAL SERIES IN CONSTRUCTION REVIEW  
ARE SUBJECT TO REVISION FOR THE LATEST PERIOD SHOWN.

## Part A--Construction Put in Place

Table A-1: New Construction Put in Place: Current Month, by Type of Construction

Type of construction	Value (in millions of dollars)					Percent change		
	1957		1956	First 6 months		June 1957 from--		First 6 months, 1956-57
	June	May	June	1957	1956	May 1957	June 1956	
<b>TOTAL NEW CONSTRUCTION</b> .....	<b>4,354</b>	<b>4,033</b>	<b>4,288</b>	<b>21,490</b>	<b>20,931</b>	<b>+ 8</b>	<b>+ 2</b>	<b>+ 3</b>
<b>PRIVATE CONSTRUCTION</b> .....	<b>3,012</b>	<b>2,808</b>	<b>3,030</b>	<b>15,319</b>	<b>15,361</b>	<b>+ 7</b>	<b>- 1</b>	<b>(1)</b>
Residential buildings (nonfarm) .....	1,534	1,410	1,654	7,596	8,183	+ 9	- 7	- 7
New dwelling units .....	1,105	1,000	1,235	5,600	6,350	+11	-11	-12
Additions and alterations .....	389	373	379	1,777	1,633	+ 4	+ 3	+ 9
Nonhousekeeping .....	40	37	40	219	200	+ 8	0	+10
Nonresidential buildings .....	786	747	761	4,381	4,083	+ 5	+ 3	+ 7
Industrial .....	270	270	264	1,619	1,430	0	+ 2	+13
Commercial .....	309	287	324	1,649	1,716	+ 8	- 5	- 4
Office buildings and								
warehouses .....	153	146	140	845	757	+ 5	+ 9	+12
Stores, restaurants, and garages ..	156	141	184	804	959	+11	-15	-16
Other nonresidential buildings .....	207	190	173	1,113	937	+ 9	+20	+19
Religious .....	73	68	62	400	337	+ 7	+18	+19
Educational .....	43	40	46	246	248	+ 8	- 7	- 1
Hospital and institutional .....	43	40	25	224	149	+ 8	+72	+50
Social and recreational .....	26	24	23	143	116	+ 8	+13	+23
Miscellaneous .....	22	18	17	100	87	+22	+29	+15
Farm construction .....	156	140	156	707	732	+11	0	- 3
Public utilities .....	517	493	448	2,547	2,312	+ 5	+15	+10
Railroad .....	40	38	35	213	185	+ 5	+14	+15
Telephone and telegraph .....	96	101	93	540	496	- 5	+ 3	+ 9
Other public utilities .....	381	354	320	1,794	1,631	+ 8	+19	+10
All other private .....	19	18	11	88	51	+ 6	+73	+73
<b>PUBLIC CONSTRUCTION</b> .....	<b>1,342</b>	<b>1,225</b>	<b>1,258</b>	<b>6,171</b>	<b>5,570</b>	<b>+10</b>	<b>+ 7</b>	<b>+11</b>
Residential buildings .....	41	37	24	201	128	+11	+71	+57
Nonresidential buildings .....	399	389	358	2,148	1,884	+ 3	+11	+14
Industrial .....	43	43	38	249	199	0	+13	+25
Educational .....	249	238	221	1,340	1,214	+ 5	+13	+10
Hospital and institutional .....	31	33	25	169	134	- 6	+24	+26
Administrative and service .....	38	38	32	201	149	0	+19	+35
Other nonresidential buildings .....	38	37	42	189	188	+ 3	-10	+ 1
Military facilities .....	115	100	135	569	614	+15	-15	- 7
Highways .....	550	455	501	1,970	1,802	+16	+ 6	+ 9
Sewer and water systems .....	120	117	115	647	577	+ 3	+ 4	+12
Sewer .....	66	64	63	360	318	+ 3	+ 5	+13
Water .....	54	53	52	287	259	+ 2	+ 4	+11
Public service enterprises .....	38	35	37	174	170	+ 9	+ 3	+ 2
Conservation and development .....	86	79	79	403	354	+ 9	+ 9	+14
All other public .....	13	13	9	59	41	0	+44	+44

Source: Departments of Commerce and Labor.

<sup>1</sup>Change of less than one-half of 1 percent.

# CONSTRUCTION REVIEW

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Table A-2: New Construction Put in Place: Recent Monthly Trend, by Type of Construction

(Value, in millions of dollars)

Type of construction	1956							1957						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
<b>TOTAL NEW CONSTRUCTION..</b>	<b>4,288</b>	<b>4,420</b>	<b>4,474</b>	<b>4,425</b>	<b>4,302</b>	<b>3,964</b>	<b>3,544</b>	<b>3,182</b>	<b>3,000</b>	<b>3,280</b>	<b>3,641</b>	<b>4,033</b>	<b>4,354</b>	
<b>PRIVATE CONSTRUCTION .....</b>	<b>3,030</b>	<b>3,107</b>	<b>3,122</b>	<b>3,073</b>	<b>3,003</b>	<b>2,922</b>	<b>2,654</b>	<b>2,311</b>	<b>2,217</b>	<b>2,392</b>	<b>2,579</b>	<b>2,808</b>	<b>3,012</b>	
Residential buildings														
(nonfarm).....	1,654	1,674	1,672	1,640	1,580	1,521	1,362	1,137	1,048	1,167	1,300	1,410	1,534	
New dwelling units .....	1,235	1,260	1,260	1,240	1,195	1,140	1,045	885	795	875	940	1,000	1,105	
Additions and alterations....	379	371	371	360	344	339	277	214	217	258	326	373	389	
Nonhousekeeping.....	40	43	41	40	41	42	40	38	36	34	34	37	40	
Nonresidential buildings .....	761	788	786	787	797	804	772	722	704	709	713	747	786	
Industrial .....	264	271	277	278	278	276	274	269	270	269	271	270	270	
Commercial.....	324	332	316	313	320	329	305	269	257	264	263	287	309	
Office buildings and warehouses.....	140	146	147	152	160	165	157	143	135	133	135	146	153	
Stores, restaurants, and garages .....	184	186	169	161	160	164	148	126	122	131	128	141	156	
Other nonresidential bldgs..	173	185	193	196	199	199	193	184	177	176	179	190	207	
Religious .....	62	67	71	73	75	74	71	67	65	63	64	68	73	
Educational .....	46	48	49	49	49	47	46	43	41	40	39	40	43	
Hospital & institutional ..	25	26	28	30	31	32	32	33	34	36	38	40	43	
Social and recreational....	23	25	27	27	27	27	26	24	23	23	23	24	26	
Miscellaneous .....	17	19	18	17	17	19	18	17	14	14	15	18	22	
Farm construction .....	156	165	169	156	130	111	97	91	96	105	119	140	156	
Public utilities.....	448	468	483	478	484	475	413	350	357	398	432	493	517	
Railroad .....	35	41	41	40	41	43	36	32	31	35	37	38	40	
Telephone and telegraph ...	93	94	94	87	100	107	88	75	86	94	88	101	96	
Other public utilities.....	320	333	348	351	343	325	289	243	240	269	307	354	381	
All other private .....	11	12	12	12	12	11	10	11	12	13	15	18	19	
<b>PUBLIC CONSTRUCTION.....</b>	<b>1,258</b>	<b>1,313</b>	<b>1,352</b>	<b>1,352</b>	<b>1,299</b>	<b>1,042</b>	<b>890</b>	<b>871</b>	<b>783</b>	<b>888</b>	<b>1,062</b>	<b>1,225</b>	<b>1,342</b>	
Residential buildings .....	24	23	25	25	30	31	30	29	30	30	34	37	41	
Nonresidential buildings .....	358	378	390	381	371	344	324	336	305	345	374	389	399	
Industrial .....	38	38	43	41	42	45	45	44	37	41	41	43	43	
Educational .....	221	231	236	231	226	210	201	211	194	215	233	238	249	
Hospital and institutional ..	25	26	29	30	30	26	23	24	23	27	31	33	31	
Administrative and service	32	35	39	39	38	33	29	30	27	32	36	38	38	
Other nonresidential bldgs.	42	48	43	40	35	30	26	27	24	30	33	37	38	
Military facilities .....	135	136	143	146	141	117	98	93	82	84	95	100	115	
Highways .....	501	518	530	543	512	326	239	225	195	230	335	455	530	
Sewer and water systems.....	115	122	125	121	120	110	100	100	93	104	113	117	120	
Sewer .....	63	68	69	65	65	60	56	56	53	58	63	64	66	
Water .....	52	54	56	56	55	50	44	44	40	46	50	53	54	
Public service enterprises....	37	41	40	39	35	32	27	24	21	26	30	35	38	
Conservation & development..	79	84	87	84	79	73	65	57	51	60	70	79	86	
All other public .....	9	11	22	13	11	9	7	7	6	9	11	13	13	

Source: Departments of Commerce and Labor.

## COMPOSITION OF REGIONS AND GEOGRAPHIC DIVISIONS

### NORTHEAST

1. New England  
Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont
2. Middle Atlantic  
New Jersey  
New York  
Pennsylvania

### NORTH CENTRAL

3. E. N. Central  
Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin
4. W. N. Central  
Iowa  
Kansas  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

### SOUTH

5. S. Atlantic  
Delaware  
Dist. of Col.  
Florida  
Georgia  
Maryland  
N. Carolina  
S. Carolina  
Virginia  
W. Virginia
6. E. S. Central  
Alabama  
Kentucky  
Mississippi  
Tennessee
7. W. S. Central  
Arkansas  
Louisiana  
Oklahoma  
Texas

### WEST

8. Mountain  
Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming
9. Pacific  
California  
Oregon  
Washington

## NONFARM POPULATION DISTRIBUTION IN 1950

NORTHEAST—29.5 percent.

NORTH CENTRAL—29.0 percent.

SOUTH—27.7 percent.

WEST—13.8 percent.



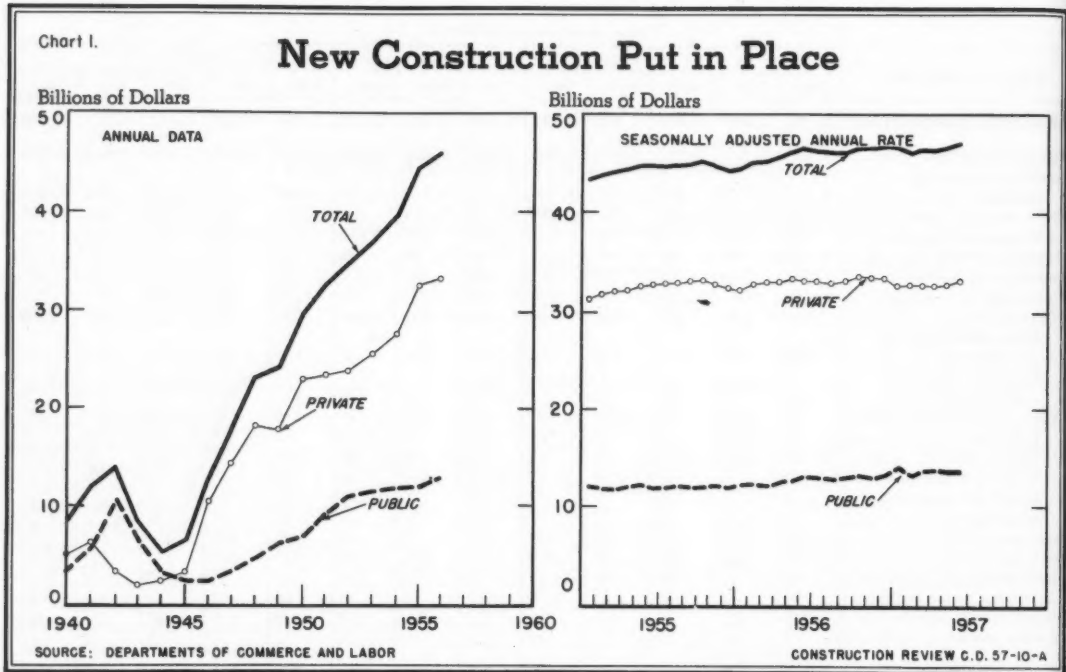


Table A-3: New Construction Put in Place: Seasonally Adjusted Annual Rate, by Type of Construction

(Value, in millions of dollars)

Type of construction	Seasonally adjusted annual rate							Annual total	
	1956	1957						1955	1956
	June	Jan.	Feb.	Mar.	Apr.	May	June		
<b>TOTAL NEW CONSTRUCTION</b> .....	46,536	46,848	46,212	46,740	46,656	46,932	47,268	44,581	46,060
<b>PRIVATE CONSTRUCTION</b> .....	33,492	32,652	32,736	32,844	32,712	33,000	33,336	32,620	33,242
Residential buildings (nonfarm) .....	17,700	16,932	16,764	16,656	16,320	16,020	16,368	18,705	17,632
Nonresidential buildings .....	9,048	8,988	8,976	9,156	9,252	9,396	9,348	7,611	8,817
Industrial .....	3,216	3,168	3,240	3,288	3,324	3,336	3,276	2,399	3,084
Commercial .....	3,780	3,504	3,396	3,504	3,540	3,648	3,636	3,218	3,631
Office buildings and warehouses .....	1,764	1,704	1,692	1,740	1,776	1,884	1,932	1,311	1,684
Stores, restaurants, and garages .....	2,016	1,800	1,704	1,764	1,764	1,764	1,704	1,907	1,947
Other nonresidential buildings .....	2,052	2,316	2,340	2,364	2,388	2,412	2,436	1,994	2,102
Farm construction .....	1,560	1,452	1,476	1,488	1,500	1,524	1,560	1,600	1,560
Public utilities .....	5,076	5,124	5,352	5,364	5,460	5,856	5,856	4,543	5,113
All other private .....	108	156	168	180	180	204	204	161	120
<b>PUBLIC CONSTRUCTION</b> .....	13,044	14,196	13,476	13,896	13,944	13,932	13,932	11,961	12,818
Residential buildings .....	276	360	372	360	396	456	468	266	292
Nonresidential buildings .....	4,008	4,464	4,200	4,392	4,560	4,536	4,476	4,218	4,072
Military facilities .....	1,464	1,380	1,296	1,248	1,248	1,224	1,248	1,313	1,395
Highways .....	4,704	5,292	4,872	5,208	4,968	4,920	4,968	4,050	4,470
Sewer and water systems .....	1,260	1,380	1,368	1,344	1,356	1,332	1,320	1,085	1,275
Sewer .....	696	768	780	768	744	732	732	615	701
Water .....	564	612	588	576	612	600	588	470	574
Public service enterprises .....	396	372	408	384	396	432	408	233	384
Conservation and development .....	840	840	840	840	888	888	912	701	826
All other public .....	96	108	120	120	132	144	132	95	104

Source: Departments of Commerce and Labor.



Table A-4: New Construction Put in Place: Value in 1947-49 Prices, by Type of Construction

(Millions of dollars)

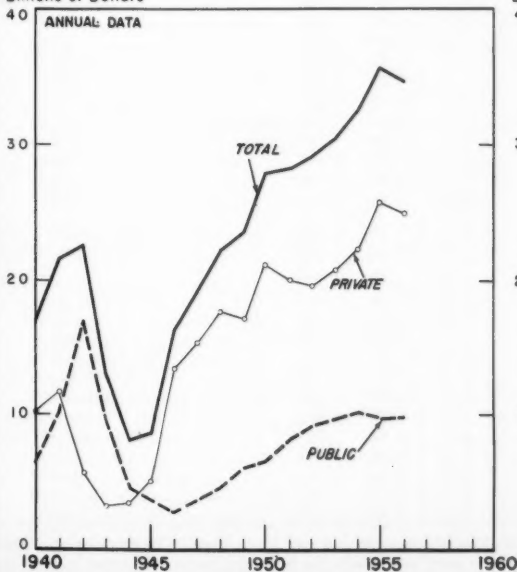
Type of construction	1956	1957					Year				
	May	Feb.	Mar.	Apr.	May		1952	1953	1954	1955	1956
<b>TOTAL NEW CONSTRUCTION .....</b>	<b>3,029</b>	<b>2,216</b>	<b>2,419</b>	<b>2,684</b>	<b>2,962</b>		<b>29,123</b>	<b>30,459</b>	<b>32,603</b>	<b>35,702</b>	<b>34,933</b>
<b>PRIVATE CONSTRUCTION .....</b>	<b>2,139</b>	<b>1,631</b>	<b>1,759</b>	<b>1,891</b>	<b>2,045</b>		<b>19,889</b>	<b>20,958</b>	<b>22,517</b>	<b>25,810</b>	<b>24,963</b>
Residential buildings (nonfarm) ....	1,186	802	893	993	1,071		10,772	11,365	12,777	15,078	13,613
Nonresidential buildings .....	532	510	514	516	537		4,211	4,655	5,064	6,012	6,587
Industrial .....	190	194	194	195	193		1,909	1,807	1,690	1,946	2,304
Office buildings and warehouses .....	102	101	99	100	107		461	640	789	1,054	1,289
Stores, restaurants, and garages.	122	88	94	92	101		525	857	989	1,472	1,441
Other nonresidential bldgs. ....	118	127	127	129	136		1,316	1,351	1,596	1,540	1,553
Farm construction .....	116	78	85	96	112		1,643	1,484	1,420	1,350	1,266
Public utilities .....	298	233	258	276	313		3,194	3,362	3,166	3,257	3,416
All other private .....	7	8	9	10	12		69	92	90	113	81
<b>PUBLIC CONSTRUCTION .....</b>	<b>890</b>	<b>585</b>	<b>660</b>	<b>793</b>	<b>917</b>		<b>9,234</b>	<b>9,501</b>	<b>10,086</b>	<b>9,892</b>	<b>9,970</b>
Residential buildings .....	17	23	23	26	28		550	459	281	213	225
Nonresidential buildings .....	249	221	248	269	279		3,465	3,531	3,738	3,291	3,016
Industrial .....	24	27	29	29	31		1,384	1,434	1,253	588	338
Educational .....	161	140	155	168	170		1,375	1,397	1,694	1,888	1,887
Hospital and institutional .....	18	17	19	22	24		401	297	286	249	220
Other nonresidential buildings ...	46	37	45	50	54		305	403	505	566	571
Military facilities .....	91	62	63	71	75		1,195	1,105	872	1,086	1,085
Highways .....	382	166	195	282	379		2,489	2,851	3,689	3,812	3,920
Sewer and water systems .....	74	62	69	74	76		639	681	724	769	859
Public service enterprises .....	22	13	16	18	21		129	122	133	157	240
Conservation and development .....	49	34	40	46	51		731	688	571	497	556
All other public .....	6	4	6	7	8		36	64	78	67	69

Source: Departments of Commerce and Labor.

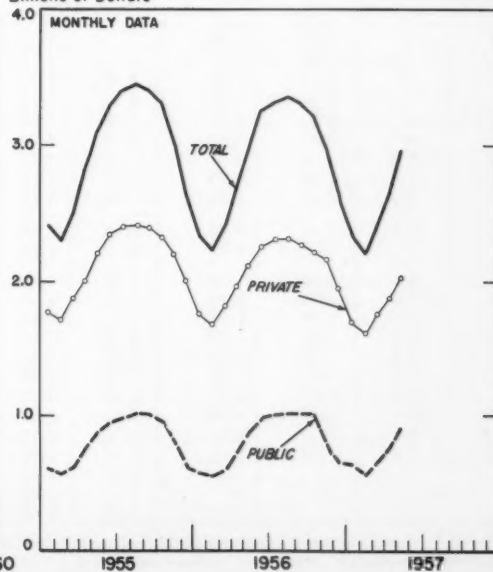
Chart 2

## New Construction Put in Place (In 1947-49 Prices)

Billions of Dollars



Billions of Dollars



SOURCE: DEPARTMENTS OF COMMERCE AND LABOR.

CONSTRUCTION REVIEW C. D. 57-10-B

## CONSTRUCTION REVIEW

Table A-5: New Public Construction Put in Place, by Source of Funds, Ownership, and Type of Construction

Source of funds, ownership, and type of construction	Value (in millions of dollars)								Percent change		
	1956	1957					First 6 months		June 1957 from--		First 6 months, 1956-57
	June	Feb.	Mar.	Apr.	May	June.	1956	1957	June 1956	May 1957	
<b>TOTAL PUBLIC CONSTRUCTION</b>	<b>1,258</b>	<b>783</b>	<b>888</b>	<b>1,062</b>	<b>1,225</b>	<b>1,342</b>	<b>5,570</b>	<b>6,171</b>	<b>+ 7</b>	<b>+10</b>	<b>+11</b>
Federal funds .....	355	225	254	303	350	398	1,526	1,791	+12	+14	+17
Direct Federal .....	265	173	192	217	238	265	1,193	1,285	0	+11	+ 8
Federal grants-in-aid <sup>1</sup> .....	90	52	62	86	112	133	333	506	+48	+19	+52
State and local funds .....	903	558	634	759	875	944	4,044	4,380	+ 5	+ 8	+ 8
<b>FEDERALLY OWNED</b> .....	<b>265</b>	<b>173</b>	<b>192</b>	<b>217</b>	<b>238</b>	<b>265</b>	<b>1,193</b>	<b>1,285</b>	<b>0</b>	<b>+11</b>	<b>+ 8</b>
Residential buildings .....	1	3	4	6	8	12	2	36	(2)	+50	(2)
Nonresidential buildings .....	55	44	51	51	54	54	247	307	- 2	0	+24
Industrial .....	38	37	41	41	43	43	199	249	+13	0	+25
Educational .....	1	0	1	1	0	1	2	4	0	--	+100
Hospital .....	3	4	4	4	5	4	16	24	+33	-20	+50
Administrative and service .....	2	2	3	3	3	3	7	17	+50	0	+143
Other nonresidential .....	11	1	2	2	3	3	23	13	-73	0	-43
Military facilities .....	135	82	84	95	100	115	614	569	-15	+15	- 7
Highways .....	9	3	4	7	9	10	34	37	+11	+11	+ 9
Conservation and development .....	64	41	48	57	65	72	291	329	+13	+11	+13
All other federally owned .....	1	0	1	1	2	2	5	7	+100	0	+40
<b>STATE AND LOCALLY OWNED</b> .....	<b>993</b>	<b>610</b>	<b>696</b>	<b>845</b>	<b>987</b>	<b>1,077</b>	<b>4,377</b>	<b>4,886</b>	<b>+ 8</b>	<b>+ 9</b>	<b>+12</b>
Residential buildings .....	23	27	26	28	29	29	126	165	+26	0	+31
Nonresidential buildings .....	303	261	294	323	335	345	1,637	1,841	+14	+ 3	+12
Educational .....	220	194	214	232	238	248	1,212	1,336	+13	+ 4	+10
Hospital .....	22	19	23	27	28	27	118	145	+23	- 4	+23
Administrative and service .....	30	25	29	33	35	35	142	184	+17	0	+30
Other nonresidential .....	31	23	28	31	34	35	165	176	+13	+ 3	+ 7
Highways .....	492	192	226	328	446	520	1,768	1,933	+ 6	+17	+ 9
Sewer and water systems .....	115	93	104	113	117	120	577	647	+ 4	+ 3	+12
Sewer .....	63	53	58	63	64	66	318	360	+ 5	+ 3	+13
Water .....	52	40	46	50	53	54	259	287	+ 4	+ 2	+11
All other State and locally owned .....	60	37	46	53	60	63	269	300	+ 5	+ 5	+12

Source: Departments of Commerce and Labor.

<sup>1</sup> Construction programs currently receiving Federal grants-in-aid cover highways, schools, hospitals, airports, and miscellaneous community facilities.<sup>2</sup> Percent increase exceeds 300.

ERRATUM: In the June 1957 issue, the January 1956 figure for the State and locally owned nonresidential building total should have read \$252 million.

# Part B--Housing

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Table B-1: New Nonfarm Dwelling Units Started, by Ownership, Location, and Type of Structure

Period	Total	Ownership		Location <sup>1</sup>		Type of structure			
		Private	Public	Metro- politan	Nonmetro- politan	1-family houses	Units in 2-or-more family structures		
							All	2-4 family	5-or-more family
NUMBER OF NEW DWELLING UNITS (in thousands)									
Year: 1946.....	670.5	662.5	8.0	(2)	(2)	590.0	80.5	(3)	(3)
1947 .....	849.0	845.6	3.4	(2)	(2)	740.2	108.8	(3)	(3)
1948 .....	931.6	913.5	18.1	(2)	(2)	766.6	165.0	(3)	(3)
1949 .....	1,025.1	988.8	36.3	(2)	(2)	794.3	230.8	(3)	(3)
1950 .....	1,396.0	1,352.2	43.8	1,021.6	374.4	1,154.1	241.9	(3)	(3)
1951 .....	1,091.3	1,020.1	71.2	776.8	314.5	900.1	191.2	(3)	(3)
1952 .....	1,127.0	1,068.5	58.5	794.9	332.1	942.5	184.5	(3)	(3)
1953 .....	1,103.8	1,068.3	35.5	803.5	300.3	937.8	166.0	(3)	(3)
1954 .....	1,220.4	1,201.7	18.7	896.9	323.5	1,077.9	142.5	51.9	90.6
1955 .....	1,328.9	1,309.5	19.4	975.8	353.1	1,194.4	134.5	49.2	85.3
1956 .....	1,118.1	1,093.9	24.2	779.8	338.3	989.7	128.4	46.4	82.0
First 5 months, 1956 .....	477.2	465.3	11.9	337.6	139.6	423.5	53.7	19.7	34.0
First 5 months, 1957 .....	405.8	384.2	21.6	279.0	126.8	(4)	(4)	(4)	(4)
1956: May.....	113.7	110.8	2.9	77.6	36.1	101.3	12.4	4.4	8.0
June.....	107.4	104.6	2.8	74.5	32.9	96.5	10.9	3.9	7.0
July.....	101.1	99.0	2.1	69.7	31.4	90.7	10.4	3.9	6.5
August.....	103.9	103.2	.7	70.9	33.0	93.2	10.7	3.7	7.0
September.....	93.9	90.7	3.2	62.3	31.6	82.9	11.0	3.7	7.3
October.....	93.6	91.2	2.4	64.9	28.7	81.8	11.8	4.4	7.4
November.....	77.4	77.0	.4	54.8	22.6	67.7	9.7	3.9	5.8
December.....	63.6	62.9	.7	45.1	18.5	53.4	10.2	3.2	7.0
1957: January.....	63.0	60.1	2.9	44.0	19.0	52.2	10.8	3.5	7.3
February.....	65.8	63.1	2.7	46.6	19.2	54.3	11.5	3.7	7.8
March.....	83.0	75.5	7.5	56.4	26.6	(4)	(4)	(4)	(4)
April.....	92.0	89.5	2.5	63.8	28.2	(4)	(4)	(4)	(4)
May.....	102.0	96.0	6.0	68.2	33.8	(4)	(4)	(4)	(4)
Percent change									
First 5 months, 1956-57 .....	-15.0	-17.4	+81.5	-17.4	- 9.2	--	--	--	--
April-May, 1957 .....	+10.9	+ 7.3	+140.0	+ 6.9	+19.9	--	--	--	--
May, 1956-57 .....	-10.3	-13.3	+106.9	-12.1	- 6.4	--	--	--	--
PERCENT DISTRIBUTION									
Year: 1946 .....	100	98.8	1.2	--	--	88.0	12.0	--	--
1947 .....	100	99.6	.4	--	--	87.2	12.8	--	--
1948 .....	100	98.1	1.9	--	--	82.3	17.7	--	--
1949 .....	100	96.5	3.5	--	--	77.5	22.5	--	--
1950 .....	100	96.9	3.1	73.2	26.8	82.7	17.3	--	--
1951 .....	100	93.5	6.5	71.2	28.8	82.5	17.5	--	--
1952 .....	100	94.8	5.2	70.5	29.5	83.6	16.4	--	--
1953 .....	100	96.8	3.2	72.8	27.2	85.0	15.0	--	--
1954 .....	100	98.5	1.5	73.5	26.5	88.3	11.7	4.3	7.4
1955 .....	100	98.5	1.5	73.4	26.6	89.9	10.1	3.7	6.4
1956 .....	100	97.8	2.2	69.7	30.3	88.5	11.5	4.2	7.3
First 5 months, 1956 .....	100	97.5	2.5	70.7	29.3	88.7	11.3	4.2	7.1
First 5 months, 1957 .....	100	94.7	5.3	68.8	31.2	--	--	--	--
1956: May .....	100	97.4	2.6	68.2	31.8	89.1	10.9	3.9	7.0
June.....	100	97.4	2.6	69.4	30.6	89.9	10.1	3.6	6.5
July.....	100	97.9	2.1	68.9	31.1	89.7	10.3	3.9	6.4
August.....	100	99.3	.7	68.2	31.8	89.7	10.3	3.6	6.7
September.....	100	96.6	3.4	66.3	33.7	88.3	11.7	3.9	7.8
October.....	100	97.4	2.6	69.3	30.7	87.4	12.6	4.7	7.9
November.....	100	99.5	.5	70.8	29.2	87.5	12.5	5.0	7.5
December.....	100	98.9	1.1	70.9	29.1	84.0	16.0	5.0	11.0
1957: January.....	100	95.4	4.6	69.8	30.2	82.9	17.1	5.6	11.5
February.....	100	95.9	4.1	70.8	29.2	82.5	17.5	5.6	11.9
March.....	100	91.0	9.0	68.0	32.0	--	--	--	--
April.....	100	97.3	2.7	69.3	30.7	--	--	--	--
May.....	100	94.1	5.9	66.9	33.1	--	--	--	--

Source: Department of Labor.

<sup>1</sup> Data by urban and rural-nonfarm classification for 1920-53 are available upon request.

<sup>2</sup> Annual data

not available before 1950; monthly data not available before January 1953.

<sup>3</sup> Not available before January 1954. Tabulations showing the

number of units in 2-family and 3-or-more family structures for 1920-53 are available upon request.

<sup>4</sup> Not yet available.



Table B-3: New Private 1-Family Houses Started: Average Construction Cost

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
AVERAGE CONSTRUCTION COST													
1946.....	\$5,250	\$5,400	\$5,850	\$5,575	\$5,475	\$5,425	\$5,375	\$5,450	\$5,450	\$5,625	\$5,675	\$5,575	\$5,525
1947.....	5,700	5,825	6,150	6,275	6,250	6,450	6,725	6,950	7,025	7,275	7,525	7,650	6,750
1948.....	7,250	7,450	7,550	7,775	7,950	8,050	8,050	8,100	7,900	7,825	7,900	7,900	7,850
1949.....	7,650	7,525	7,450	7,500	7,650	7,675	7,525	7,650	7,725	7,675	7,675	7,625	7,625
1950.....	7,625	7,850	8,225	8,450	8,450	8,750	8,875	9,125	8,900	9,200	9,075	9,200	8,675
1951.....	9,100	9,250	9,175	9,325	9,475	9,475	9,400	9,300	9,450	9,225	9,250	9,125	9,300
1952.....	9,050	9,275	9,350	9,550	9,575	9,675	9,500	9,425	9,600	9,525	9,550	9,525	9,475
1953.....	9,400	9,600	9,800	10,000	9,900	10,000	10,125	10,175	10,200	10,175	9,975	10,000	9,950
1954.....	9,750	9,800	10,075	10,600	10,850	10,750	10,850	10,750	10,675	10,800	10,850	11,075	10,625
1955.....	10,575	11,125	11,250	11,250	11,400	11,400	11,475	11,425	11,525	11,575	11,575	11,625	11,350
1956.....	11,325	11,750	12,150	12,275	12,300	12,300	12,375	12,275	12,325	12,425	12,675	12,350	12,225
1957.....	12,175	12,400	(1)	(1)	(1)								
Percent change, 1956 to 1957													
	+7.5	+5.5	--	--	--								

Source: Department of Labor. <sup>1</sup> Not yet available.Table B-4: New Nonfarm Dwelling Units Started, by Region <sup>1</sup>

Region	Number of new dwelling units (in thousands)										Percent change, 1st 2 mos. 1956-57	
	1956							1957		First 2 months		
	Feb.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	1956		1957
TOTAL .....	78.4	101.1	103.9	93.9	93.6	77.4	63.6	63.0	65.8	153.5	128.8	-16.1
Northeast .....	14.4	21.8	20.8	19.2	20.1	16.5	12.4	9.3	9.7	26.8	19.0	-29.1
North Central .....	16.4	29.9	29.2	28.1	26.2	19.2	14.2	10.7	14.0	32.1	24.7	-23.1
South .....	26.8	27.7	30.7	28.1	27.5	22.7	21.1	24.8	24.6	54.0	49.4	- 8.5
West .....	20.8	21.7	23.2	18.5	19.8	19.0	15.9	18.2	17.5	40.6	35.7	-12.1

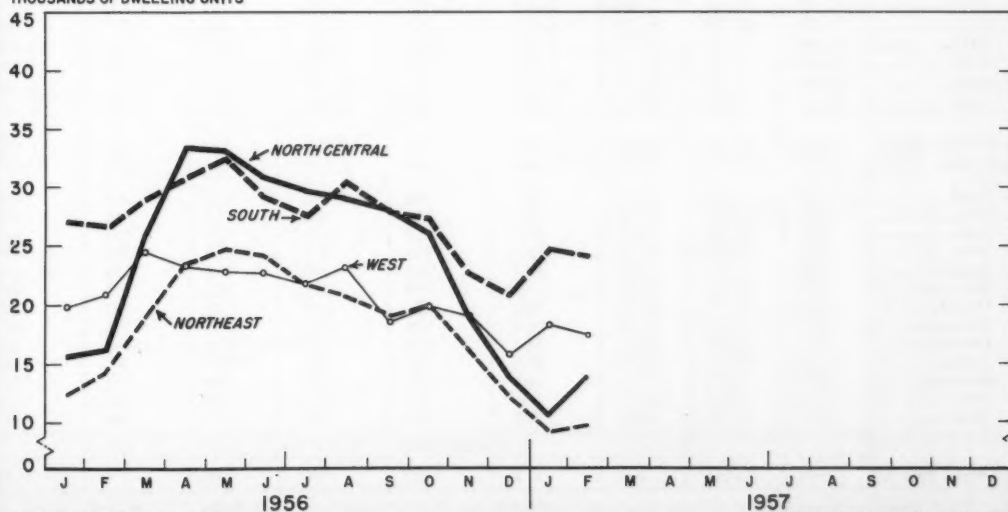
Source: Department of Labor. <sup>1</sup> Composition of regions, and nonfarm population distribution by region, are shown below table A-2.

Chart 4.

## Housing Starts

(Regional Trends)

THOUSANDS OF DWELLING UNITS



SOURCE: DEPARTMENT OF LABOR.

CONSTRUCTION REVIEW C.D.-57-10-D



## CONSTRUCTION REVIEW

Table B-5: New Private Nonfarm Dwelling Units: Mortgages Applied for, Appraisals Requested, and Units Started Under FHA and VA Programs

Period	FHA-assisted units		VA-assisted units		Nonfarm dwelling units started		
	In applications*	Started (in thousands)	In appraisal requests	Started (in thousands)	U. S. total	FHA- assisted	VA- assisted
	NUMBER OF DWELLING UNITS				PERCENT DISTRIBUTION		
Year: 1950.....	625,343	486.7	(1)	200.0	100	36	15
1951.....	267,127	263.5	164,365	148.7	100	26	15
1952.....	323,753	279.9	226,299	141.3	100	26	13
1953.....	327,323	252.0	251,437	156.6	100	24	15
1954.....	383,334	276.3	535,412	307.0	100	23	26
1955.....	314,888	276.7	620,776	392.9	100	21	30
1956.....	219,447	189.3	401,520	270.8	100	17	25
First 5 months, 1956..	109,835	82.5	194,093	114.0	100	18	25
First 5 months, 1957..	87,884	55.4	94,567	58.8	100	14	15
1956: May.....	24,278	19.7	44,395	26.6	100	18	24
June.....	18,047	18.4	35,620	26.4	100	18	25
July.....	17,589	17.6	34,634	25.2	100	18	25
August.....	18,531	18.6	36,518	24.4	100	18	24
September.....	13,892	15.1	30,007	24.0	100	17	26
October.....	17,181	15.5	29,678	24.0	100	17	26
November.....	13,469	12.1	21,941	17.8	100	16	23
December.....	10,903	9.6	19,029	15.0	100	15	24
1957: January.....	13,116	7.7	18,924	12.0	100	13	20
February.....	13,989	9.3	20,170	9.9	100	15	16
March.....	20,143	11.3	19,508	11.4	100	15	15
April.....	20,442	12.1	19,381	13.5	100	14	15
May.....	20,194	15.0	16,584	12.0	100	16	13
	Percent change						
First 5 mos., 1956-57..	-20	-33	-51	-48			

Source: Table compiled by Department of Labor from data reported by the Federal Housing Administration (FHFA) and the Veterans Administration. \* For comparability with private dwelling units started, the data given here for FHA applications excludes units under the armed services (Capehart) housing program. <sup>1</sup> Not available.

Table B-6: Nonfarm Mortgage Recordings of \$20,000 or Less: Number and Average Amount, and Total Amount by Type of Lender

Period	Total number (in thousands)	Average amount (dollars)	Total amount (in millions of dollars) recorded by--						
			All lenders	Savings and loan associations	Insurance companies	Commercial banks	Mutual savings banks	Individuals	All other lenders
Year: 1950.....	3,032	5,335	16,179	5,060	1,618	3,365	1,064	2,299	2,774
1951.....	2,878	5,701	16,405	5,295	1,615	3,370	1,013	2,539	2,572
1952.....	3,028	5,950	18,018	6,452	1,420	3,600	1,137	2,758	2,651
1953.....	3,164	6,241	19,747	7,365	1,480	3,680	1,327	2,841	3,055
1954.....	3,458	6,644	22,974	8,312	1,768	4,239	1,501	2,882	4,272
1955.....	3,913	7,279	28,484	10,452	1,932	5,617	1,858	3,362	5,265
1956.....	3,602	7,521	27,088	9,532	1,799	5,458	1,824	3,558	4,917
First 4 mos., 1956..	1,165	7,424	8,649	3,007	584	1,795	514	1,139	1,610
First 4 mos., 1957..	1,036	7,405	7,672	2,844	469	1,353	422	1,174	1,410
1956: April.....	303	7,494	2,269	827	148	470	128	295	401
May.....	324	7,511	2,434	872	159	508	152	318	425
June.....	319	7,583	2,417	877	165	494	162	309	410
July.....	312	7,621	2,374	851	159	464	168	307	425
August.....	336	7,562	2,544	921	163	508	181	319	452
September.....	290	7,534	2,185	779	139	441	163	275	388
October.....	322	7,535	2,425	848	154	475	183	327	438
November.....	277	7,608	2,108	717	136	409	152	293	401
December.....	257	7,582	1,951	660	138	366	148	270	369
1957: January.....	258	7,541	1,942	659	133	353	117	304	376
February.....	237	7,381	1,749	644	105	308	96	271	325
March.....	264	7,333	1,937	744	115	335	99	293	351
April.....	277	7,390	2,044	798	116	357	110	306	357
	Percent change								
First 4 mos., 1956-57	-11	(1)	-11	-5	-20	-25	-18	+3	-12

Source: Table compiled by Department of Labor from data reported by the Federal Home Loan Bank Board.

<sup>1</sup> Change of less than one-half of 1 percent.

(NOTE: Tables B-7 and B-8, Housing Vacancy Rates, are shown quarterly in the March, June, September, and December issues.)

## Part C—Building Permits

19

Table C-1: Building Permit Activity: Current Summary, by Type of Building Construction

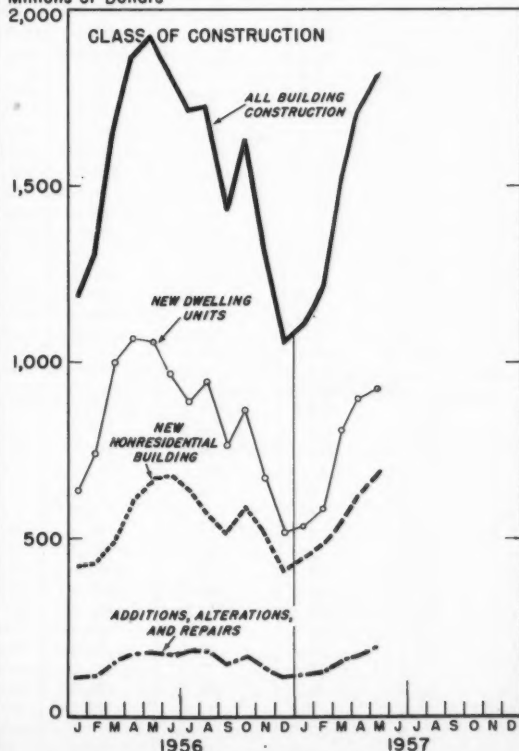
Type of building construction	Valuation (in millions of dollars)						Percent change, May 1956-57
	1957			1956	First 5 months		
	May	Apr.	Mar.	May	1957	1956	
All building construction <sup>1</sup> .....	1,821.3	1,703.2	1,531.0	1,926.4	7,376.7	7,969.6	- 5
Private .....	1,638.6	1,527.4	1,370.3	1,736.1	6,563.6	7,213.2	- 6
Public .....	182.7	175.8	160.7	190.3	813.1	756.4	- 4
New dwelling units <sup>2</sup> .....	928.1	893.7	800.7	1,058.7	3,742.3	4,508.6	-12
Number of new dwelling units .....	(84,868)	(81,400)	(72,758)	(98,088)	(346,373)	(425,969)	(-13)
New nonresidential building .....	678.2	616.2	556.1	672.2	2,785.7	2,662.8	+ 1
Commercial buildings .....	218.8	191.6	162.4	205.2	821.1	854.7	+ 7
Stores and other mercantile buildings ....	89.5	86.4	81.8	105.6	370.5	444.2	-15
All other commercial buildings .....	129.3	105.2	80.6	99.6	450.6	410.5	+30
Community buildings.....	242.5	214.9	214.7	210.5	989.9	899.9	+15
Industrial buildings.....	96.5	102.8	96.5	140.3	464.2	520.1	-31
All other nonresidential buildings .....	120.4	106.9	82.5	116.3	510.5	388.0	+ 4
Additions, alterations, and repairs .....	197.7	180.0	157.9	182.0	783.0	741.0	+ 9

Source: Department of Labor. <sup>1</sup> Includes new nonhousekeeping residential building, not shown separately. <sup>2</sup> Housekeeping only.

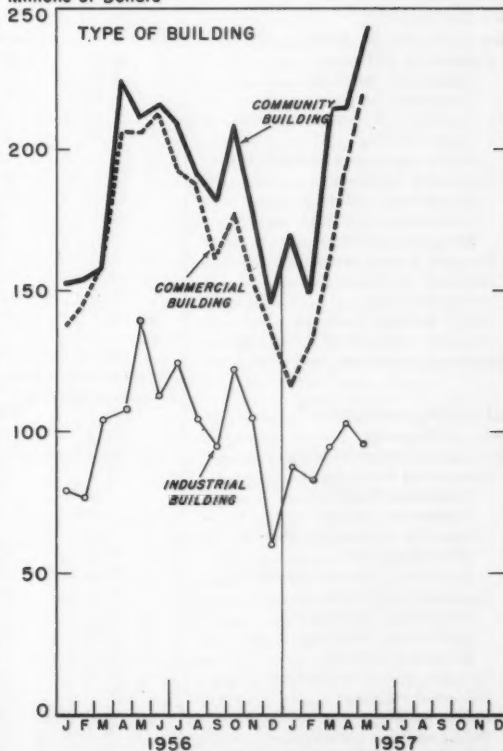
Chart 5

### Building Permit Activity

Millions of Dollars



Millions of Dollars



SOURCE: DEPARTMENT OF LABOR.

CONSTRUCTION REVIEW C. D. 57-10-E

## CONSTRUCTION REVIEW

Table C-2: Building Permit Activity: Valuation, by Type of Building Construction and Region<sup>1</sup>

Type of building construction	Valuation (in millions of dollars)						Percent change, 1st 4 months 1956-57
	1956	1957				First 4 months	
	Apr.	Feb.	Mar.	Apr.	1956	1957	
	UNITED STATES						
All building construction <sup>2</sup> .....	1,875.4	1,215.3	1,526.5	1,703.2	6,043.2	5,555.4	- 8
New dwelling units <sup>3</sup> .....	1,064.5	584.6	800.7	893.7	3,449.9	2,814.2	-18
New nonresidential building .....	621.3	490.5	552.0	616.2	1,990.6	2,107.5	+ 6
Commercial buildings .....	206.1	132.2	162.4	191.6	649.5	602.3	- 7
Amusement buildings .....	13.8	5.9	10.1	15.5	33.1	38.7	+17
Commercial garages .....	6.3	3.7	3.6	7.3	17.1	18.8	+10
Gasoline and service stations .....	14.2	12.2	14.0	15.0	47.8	53.8	+13
Office buildings .....	62.8	51.9	52.8	67.4	209.9	210.1	(4)
Stores and other mercantile bldgs..	109.0	58.5	81.8	86.4	341.6	281.0	-18
Community buildings .....	224.7	149.7	214.6	214.9	689.5	747.4	+ 8
Educational buildings .....	139.8	97.9	138.0	136.6	466.9	483.4	+ 4
Institutional buildings .....	37.7	22.2	36.2	31.5	86.5	120.1	+39
Religious buildings .....	47.2	29.7	40.5	46.8	136.1	144.0	+ 6
Garages, private residential .....	21.8	6.7	14.5	19.5	47.4	46.0	- 3
Industrial buildings .....	107.9	83.3	94.3	102.8	379.8	367.7	- 3
Public buildings .....	16.5	53.0	24.8	28.0	67.4	130.9	+94
Public utilities buildings .....	24.6	51.3	21.9	37.4	84.0	145.6	+73
All other nonresidential buildings .....	19.7	14.3	19.4	22.0	73.0	67.6	- 7
Additions, alterations, and repairs .....	176.6	128.9	157.5	180.0	559.0	585.3	+ 5
	Northeast						
All building construction <sup>2</sup> .....	459.3	235.9	334.1	351.2	1,262.3	1,117.8	-11
New dwelling units <sup>3</sup> .....	239.1	96.7	158.0	188.7	703.8	530.3	-25
New nonresidential building .....	178.6	114.1	138.7	124.1	435.5	460.3	+ 6
Commercial buildings .....	48.2	20.9	39.2	36.8	124.2	121.0	- 3
Amusement buildings .....	3.8	.8	2.0	3.8	8.9	8.7	- 2
Commercial garages .....	3.3	1.1	2.0	1.8	6.8	5.4	-21
Gasoline and service stations .....	2.5	2.1	2.1	2.4	8.3	8.9	+7
Office buildings .....	14.0	8.2	8.1	16.0	37.9	40.2	+ 6
Stores and other mercantile bldgs..	24.6	8.7	25.0	12.8	62.3	57.8	- 7
Community buildings .....	83.0	30.7	58.7	54.7	190.0	178.9	- 6
Educational buildings .....	47.7	23.1	39.7	40.0	127.6	125.3	- 2
Institutional buildings .....	24.0	2.3	10.0	6.1	31.5	24.6	-22
Religious buildings .....	11.4	5.3	8.9	8.7	30.9	29.0	- 6
Garages, private residential .....	3.9	1.2	3.1	4.3	9.1	9.5	+ 4
Industrial buildings .....	33.7	19.0	23.3	17.2	81.2	72.8	-10
Public buildings .....	2.0	18.8	4.7	1.9	7.6	30.2	+297
Public utilities buildings .....	4.1	21.1	6.6	3.5	11.3	34.9	+209
All other nonresidential buildings .....	3.7	2.4	3.1	5.7	12.1	12.9	+ 7
Additions, alterations, and repairs .....	39.7	24.0	34.8	36.6	115.4	120.3	+ 4
	North Central						
All building construction <sup>2</sup> .....	618.3	320.6	444.6	532.0	1,734.6	1,539.4	-11
New dwelling units <sup>3</sup> .....	366.2	146.1	240.0	266.7	1,028.5	759.4	-26
New nonresidential building .....	196.6	140.3	163.3	211.9	548.9	625.6	+14
Commercial buildings .....	59.1	38.9	51.1	47.0	170.6	155.8	- 9
Amusement buildings .....	3.0	1.5	3.3	4.8	8.4	11.2	+33
Commercial garages .....	.9	.8	.8	1.7	3.4	3.7	+ 9
Gasoline and service stations .....	4.3	3.5	4.7	4.9	12.4	16.3	+31
Office buildings .....	18.6	20.4	20.0	15.8	51.4	62.3	+21
Stores and other mercantile bldgs..	32.2	12.7	22.4	19.7	95.0	62.1	-35
Community buildings .....	71.3	45.7	58.5	80.5	189.3	227.6	+20
Educational buildings .....	49.8	24.7	35.2	48.8	132.2	131.8	(4)
Institutional buildings .....	6.3	11.7	9.8	13.1	18.5	47.4	+156
Religious buildings .....	15.2	9.3	13.5	18.6	38.6	48.4	+25
Garages, private residential .....	13.0	2.3	7.0	10.5	22.1	21.3	- 4
Industrial buildings .....	35.7	21.5	32.1	44.3	107.7	133.2	+24
Public buildings .....	4.3	12.4	5.9	9.6	17.6	29.1	+65
Public utilities buildings .....	9.1	17.4	5.8	17.1	29.9	49.1	+64
All other nonresidential buildings .....	4.2	2.0	2.8	2.9	11.6	9.6	-17
Additions, alterations, and repairs .....	51.1	32.8	39.2	51.1	146.8	147.9	+ 1

See footnotes at end of table.

# CONSTRUCTION REVIEW

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Table C-2: Building Permit Activity: Valuation, by Type of Building Construction and Region<sup>1</sup>--Continued

Type of building construction	Valuation (in millions of dollars)						Percent change, 1st 4 months 1956-57
	1956	1957			First 4 months		
	Apr.	Feb.	Mar.	Apr.	1956	1957	
	South						
All building construction <sup>2</sup> .....	401.4	357.9	354.9	404.6	1,497.9	1,457.1	- 3
New dwelling units <sup>3</sup> .....	231.4	175.2	185.5	210.6	837.8	743.8	-11
New nonresidential building .....	122.8	137.0	118.0	139.5	496.3	525.5	+ 6
Commercial buildings .....	53.2	42.6	37.7	57.0	208.7	174.8	-16
Amusement buildings .....	4.9	1.9	2.3	3.5	8.8	9.2	+ 5
Commercial garages .....	1.3	.3	.5	1.7	3.9	3.4	-13
Gasoline and service stations.....	5.0	4.3	4.6	4.9	17.7	18.8	+ 6
Office buildings.....	18.2	15.2	11.9	15.6	77.4	54.0	-30
Stores and other mercantile bldgs..	23.8	20.8	18.4	31.3	100.9	89.4	-11
Community buildings.....	37.3	44.1	48.5	45.0	167.5	197.4	+18
Educational buildings.....	19.3	31.6	25.6	22.6	98.3	121.8	+24
Institutional buildings .....	4.6	2.7	11.3	8.4	24.4	30.5	+25
Religious buildings.....	13.4	9.8	11.6	13.9	44.8	44.9	(4)
Garages, private residential .....	2.0	1.3	1.7	1.9	6.5	6.0	- 8
Industrial buildings.....	18.9	25.2	15.3	19.3	59.4	73.5	+24
Public buildings .....	3.5	12.8	6.9	6.2	17.6	36.2	+106
Public utilities buildings.....	5.2	7.8	4.3	6.9	25.6	25.4	- 1
All other nonresidential buildings ....	2.7	3.3	3.6	3.3	11.0	12.3	+12
Additions, alterations, and repairs.....	43.3	39.8	43.2	50.1	151.9	168.4	+11
West							
All building construction <sup>2</sup> .....	396.4	300.8	392.9	415.5	1,548.5	1,441.2	- 7
New dwelling units <sup>3</sup> .....	227.8	166.7	217.1	227.7	879.8	780.6	-11
New nonresidential building.....	123.2	99.2	132.0	140.7	509.9	496.1	- 3
Commercial buildings .....	45.6	29.8	34.3	50.8	146.0	150.7	+ 3
Amusement buildings .....	2.1	1.7	2.5	3.3	7.0	9.4	+34
Commercial garages .....	.8	1.5	.4	2.2	3.1	6.4	+106
Gasoline and service stations.....	2.3	2.3	2.6	2.8	9.3	9.8	+ 5
Office buildings.....	11.9	8.0	12.8	19.9	43.2	53.6	+24
Stores and other mercantile bldgs..	28.4	16.3	16.1	22.6	83.4	71.6	-14
Community buildings.....	33.1	29.3	49.0	34.7	142.7	143.6	+ 1
Educational buildings.....	23.0	18.5	37.5	25.3	108.7	104.6	- 4
Institutional buildings.....	2.8	5.5	5.0	3.8	12.2	17.4	+43
Religious buildings.....	7.3	5.3	6.4	5.6	21.8	21.6	- 1
Garages, private residential .....	2.9	1.9	2.7	2.9	9.7	9.2	- 5
Industrial buildings.....	19.7	17.6	23.6	22.0	131.5	88.2	-33
Public buildings .....	6.7	8.9	7.3	10.4	24.6	35.5	+44
Public utilities buildings .....	6.2	5.0	5.2	9.8	17.2	36.1	+110
All other nonresidential buildings.....	9.2	6.7	9.9	10.2	38.3	32.9	-14
Additions, alterations, and repairs.....	42.6	32.4	40.2	42.2	144.9	148.6	+ 3

Source: Department of Labor. <sup>1</sup> Composition of regions, and nonfarm population distribution by region, are shown below table A-2. <sup>2</sup> Includes new nonhousekeeping residential building, not shown separately. <sup>3</sup> Housekeeping only. <sup>4</sup> Change of less than one-half of 1 percent.

Table C-3: Building Permit Activity: Number of Nonresidential Buildings, by Type of Building

Type of building	1956					1957			
	Apr.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Amusement buildings.....	305	153	183	185	107	141	159	191	315
Commercial garages.....	199	184	274	212	165	149	122	193	195
Educational buildings.....	420	359	449	395	327	327	344	408	440
Garages, private residential.....	22,601	25,407	25,301	14,666	6,632	5,345	6,913	14,745	20,650
Gasoline and service stations.....	939	959	1,036	874	695	768	718	883	910
Industrial buildings.....	1,554	1,284	1,500	1,329	893	1,058	951	1,251	1,275
Institutional buildings.....	87	79	124	74	51	58	73	96	112
Office buildings.....	741	601	648	578	475	487	545	685	770
Religious buildings.....	606	522	534	418	314	333	391	503	565
Stores and other mercantile buildings..	3,506	2,344	2,825	2,274	1,733	1,956	2,052	2,656	2,745

Source: Department of Labor.

## CONSTRUCTION REVIEW

Table C-4: Building Permit Activity: Valuation and Number of New Dwelling Units, by Type of Structure, Public-Private Ownership, and Region <sup>1</sup>

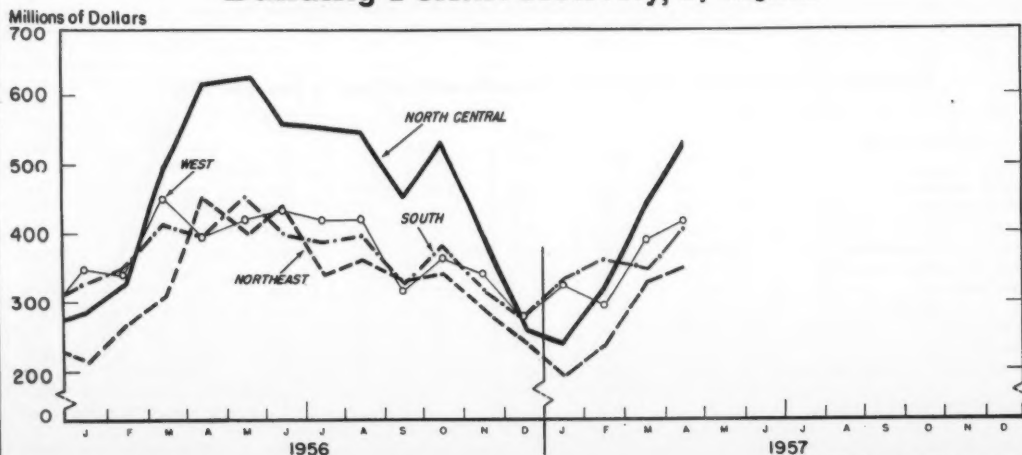
(Housekeeping units only)										
Ownership and type of structure	Valuation (in millions of dollars)					Number of dwelling units				
	1956		1957		1st 4 months	1956		1957		1st 4 months
	Apr.	Mar.	Apr.	1956	1957	Apr.	Mar.	Apr.	1956	1957
	UNITED STATES									
All new dwelling units..	1,064.5	800.7	893.7	3,449.9	2,814.2	98,734	72,757	81,400	327,881	261,505
Privately owned .....	1,054.9	799.0	881.4	3,390.6	2,779.4	97,738	72,656	80,322	321,972	258,179
1-family .....	985.2	710.2	792.4	3,147.7	2,472.3	86,562	60,519	66,941	284,127	212,313
2-4 family .....	30.3	30.5	32.7	102.5	108.4	4,159	4,484	4,793	15,373	16,282
5-or-more family ....	39.4	58.2	56.2	140.4	198.6	7,017	7,653	8,588	22,472	29,584
Publicly owned .....	9.7	1.7	12.3	59.3	34.7	996	101	1,078	5,909	3,326
Northeast										
All new dwelling units..	239.1	158.0	188.7	703.8	530.3	21,626	13,341	16,328	65,055	46,110
Privately owned .....	232.1	156.4	179.7	667.2	513.6	20,911	13,245	15,568	61,510	44,521
1-family .....	211.5	140.4	163.9	601.3	458.5	18,032	11,585	13,540	52,605	37,765
2-4 family .....	7.9	5.4	6.1	23.5	19.0	969	737	834	3,203	2,623
5-or-more family ....	12.7	10.5	9.7	42.5	36.1	1,910	923	1,194	5,702	4,133
Publicly owned .....	7.1	1.7	9.0	36.6	16.7	715	96	760	3,545	1,589
North Central										
All new dwelling units..	366.2	240.0	266.7	1,028.5	759.4	29,256	18,589	20,196	83,016	58,963
Privately owned .....	365.0	240.0	266.1	1,014.6	755.4	29,096	18,589	20,160	81,553	58,664
1-family .....	352.4	215.8	248.5	971.0	692.0	27,629	15,978	18,019	76,652	51,076
2-4 family .....	9.4	10.3	10.0	28.7	31.3	954	1,081	1,102	3,005	3,390
5-or-more family ....	3.2	14.0	7.6	14.8	32.1	513	1,530	1,039	1,896	4,198
Publicly owned .....	1.2	0	.6	13.9	4.0	160	0	36	1,463	299
South										
All new dwelling units..	231.4	185.5	210.6	837.8	743.8	24,690	19,362	21,689	90,495	77,386
Privately owned .....	230.1	185.5	208.5	831.0	730.8	24,575	19,361	21,457	89,780	76,039
1-family .....	218.5	172.1	192.1	782.4	673.0	22,208	17,063	18,771	81,091	66,325
2-4 family .....	4.7	4.1	5.9	19.5	19.3	904	836	1,121	3,977	3,841
5-or-more family ....	7.0	9.4	10.4	29.1	38.4	1,463	1,462	1,565	4,712	5,873
Publicly owned .....	1.3	(2)	2.1	6.8	13.0	115	1	232	715	1,347
West										
All new dwelling units..	227.8	217.1	227.7	879.8	780.6	23,162	21,465	23,187	89,315	79,046
Privately owned .....	227.7	217.1	227.0	877.8	779.5	23,156	21,461	23,137	89,129	78,955
1-family .....	202.9	182.0	187.9	793.1	648.7	18,693	15,893	16,611	73,779	57,147
2-4 family .....	8.3	10.7	10.7	30.8	38.9	1,332	1,830	1,736	5,188	6,428
5-or-more family ....	16.5	24.4	28.4	54.0	91.9	3,131	3,738	4,790	10,162	15,380
Publicly owned .....	.2	(2)	.6	2.0	1.0	6	4	50	186	91

Source: Department of Labor.

<sup>1</sup> Composition of regions, and nonfarm population distribution by region, are shown below table A-2. <sup>2</sup> Less than \$50,000.

Chart 6.

## Building Permit Activity, By Regions





## CONSTRUCTION REVIEW

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Table C-5: Building Permit Activity: Valuation, by Metropolitan-Nonmetropolitan Location and by State

(Millions of dollars)

State	1956			1957			First 3 months		Percent change, 1st 3 mos. 1956-57
	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	1956	1957	
ALL STATES .....	1,683.7	1,340.4	1,053.0	1,110.0	1,215.3	1,526.5	4,167.8	3,852.2	- 8
Metropolitan areas .....	1,302.5	1,032.0	841.6	863.7	961.1	1,196.0	3,277.6	3,021.2	- 8
Nonmetropolitan areas .....	381.2	308.4	211.4	246.3	254.2	330.5	890.2	831.0	- 7
Alabama .....	15.1	14.7	11.0	14.3	15.2	14.1	43.2	43.7	+ 1
Arizona .....	15.7	16.3	11.4	26.8	13.6	18.1	45.1	58.6	+30
Arkansas .....	6.0	3.7	3.4	5.0	9.0	6.4	14.4	20.4	+42
California .....	315.0	242.0	203.5	229.4	212.3	278.6	811.8	720.3	-11
Colorado .....	22.8	23.0	20.2	19.7	21.8	21.9	64.6	63.5	- 2
Connecticut .....	22.0	37.1	22.6	21.1	22.3	42.0	70.6	85.3	+21
Delaware .....	3.7	6.5	3.4	6.1	5.4	3.2	12.5	14.7	+18
District of Columbia .....	5.9	4.4	2.4	5.3	2.8	3.9	13.3	11.9	-11
Florida .....	70.1	65.7	57.8	70.3	72.2	76.0	202.1	218.6	+ 8
Georgia .....	24.6	17.4	12.8	20.2	22.1	20.6	62.8	63.0	(1)
Idaho .....	3.9	3.3	1.3	2.0	1.3	3.5	6.3	6.8	+ 8
Illinois .....	137.4	92.6	75.2	61.5	93.2	109.8	301.1	264.4	-12
Indiana .....	30.8	30.7	20.5	23.2	20.7	51.3	77.7	95.2	+23
Iowa .....	16.2	13.0	7.6	4.3	6.0	11.2	31.1	21.4	-31
Kansas .....	20.4	14.2	8.7	5.8	10.0	10.8	42.3	26.6	-37
Kentucky .....	13.0	10.6	10.1	6.5	13.6	16.8	30.1	36.9	+23
Louisiana .....	27.8	14.9	18.6	19.3	20.4	17.4	73.8	57.2	-22
Maine .....	1.4	2.7	.8	.6	1.0	2.5	5.2	4.1	-21
Maryland .....	41.6	28.1	28.5	27.3	37.9	30.8	99.9	96.0	- 4
Massachusetts .....	43.7	39.5	25.9	18.5	28.4	51.2	94.0	98.1	+ 4
Michigan .....	89.3	72.8	38.9	45.2	48.2	74.2	208.7	167.5	-20
Minnesota .....	26.2	22.5	15.0	10.4	18.3	20.1	54.5	48.8	-10
Mississippi .....	4.9	3.5	3.0	2.5	3.6	2.8	12.6	8.9	-29
Missouri .....	31.5	19.4	15.3	16.7	18.6	24.7	69.2	60.1	-13
Montana .....	5.6	2.3	.9	1.3	2.3	3.0	9.2	6.6	-28
Nebraska .....	7.8	5.6	2.6	2.4	4.7	5.6	15.7	12.7	-19
Nevada .....	6.1	3.7	2.3	3.6	3.0	4.3	13.0	10.9	-16
New Hampshire .....	2.0	3.1	1.6	1.1	1.5	2.1	4.3	4.8	+12
New Jersey .....	70.1	54.1	55.6	40.3	50.4	58.8	184.6	149.5	-19
New Mexico .....	5.7	7.2	5.4	9.0	5.4	6.7	18.5	21.1	+14
New York .....	110.3	100.8	86.9	73.0	80.8	109.3	280.4	263.3	- 6
North Carolina .....	21.3	14.9	11.9	16.1	15.2	16.2	56.4	47.6	-16
North Dakota .....	.9	1.8	.9	.3	.5	1.6	1.6	2.4	+50
Ohio .....	101.1	78.8	53.5	52.6	73.6	94.7	230.5	221.1	- 4
Oklahoma .....	11.6	15.9	8.2	7.2	9.2	10.3	32.5	26.7	-18
Oregon .....	14.5	11.9	7.2	12.8	7.9	11.4	37.1	32.1	-13
Pennsylvania .....	68.3	48.6	47.2	39.9	49.6	64.1	154.7	153.6	- 1
Rhode Island .....	2.9	4.6	3.1	1.6	1.8	2.9	8.5	6.3	-26
South Carolina .....	6.6	4.7	5.3	4.9	4.7	4.4	21.5	14.0	-35
South Dakota .....	3.4	1.6	1.0	.9	1.0	2.0	6.6	3.9	-41
Tennessee .....	19.9	17.0	13.6	8.9	10.5	15.4	49.5	34.8	-30
Texas .....	88.4	64.9	56.1	98.2	77.1	82.4	258.0	257.6	(1)
Utah .....	12.0	9.0	4.3	4.3	7.6	13.3	51.4	25.2	-51
Vermont .....	.3	.6	.2	.2	.2	1.2	.8	1.6	+100
Virginia .....	46.4	24.8	23.2	24.7	33.7	29.6	100.6	87.9	-13
Washington .....	46.3	25.7	20.7	22.2	24.7	30.5	89.6	77.4	-14
West Virginia .....	4.7	5.2	2.8	3.1	5.2	4.6	13.3	12.9	- 3
Wisconsin .....	35.6	34.0	18.8	18.7	26.0	38.7	77.3	83.4	+ 8
Wyoming .....	3.0	.8	1.9	.9	.8	1.6	5.5	3.3	-40

Source: Department of Labor.

<sup>1</sup> Change of less than one-half of 1 percent.

## CONSTRUCTION REVIEW

Table C-6: Building Permit Activity: Number of New Dwelling Units, by Metropolitan-Nonmetropolitan Location and by State

State	(Housekeeping units only)						First 3 months		Percent change, 1st 3 mos. 1956-57
	1956			1957			1956	1957	
	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	1956	1957	
ALL STATES .....	95, 169	61, 728	48, 144	51, 626	55, 717	72, 757	229, 147	180, 105	-21
Metropolitan areas .....	73, 677	46, 041	37, 438	39, 528	42, 954	56, 252	177, 808	138, 739	-22
Nonmetropolitan areas .....	21, 492	15, 687	10, 706	12, 098	12, 763	16, 505	51, 339	41, 366	-19
Alabama .....	1, 141	942	733	958	865	984	3, 098	2, 807	- 9
Arizona .....	1, 267	1, 198	821	1, 399	1, 096	1, 159	3, 201	3, 654	+14
Arkansas .....	465	333	228	260	223	318	978	801	-18
California .....	18, 869	12, 622	10, 294	12, 945	12, 906	16, 259	49, 600	42, 110	-15
Colorado .....	1, 595	910	962	906	919	1, 090	3, 754	2, 915	-22
Connecticut .....	1, 270	1, 245	1, 097	760	781	1, 636	3, 156	3, 177	+ 1
Delaware .....	215	139	112	102	85	156	719	343	-52
District of Columbia .....	375	29	84	137	109	119	450	365	-19
Florida .....	5, 027	4, 864	4, 112	4, 920	4, 610	4, 915	14, 650	14, 445	- 1
Georgia .....	1, 627	1, 023	780	1, 147	1, 020	1, 151	4, 598	3, 318	-28
Idaho .....	133	115	55	50	53	126	233	229	- 2
Illinois .....	6, 725	3, 537	3, 349	2, 363	3, 412	4, 891	13, 705	10, 666	-22
Indiana .....	1, 626	1, 343	848	724	795	1, 300	3, 592	2, 819	-22
Iowa .....	827	485	268	191	242	479	1, 476	912	-38
Kansas .....	963	553	317	321	482	641	2, 339	1, 444	-38
Kentucky .....	872	458	681	341	393	650	1, 834	1, 384	-25
Louisiana .....	1, 077	701	651	812	1, 206	807	2, 728	2, 825	+ 4
Maine .....	67	86	40	24	18	90	114	132	+16
Maryland .....	2, 499	1, 164	1, 264	1, 354	2, 063	1, 940	5, 838	5, 357	- 8
Massachusetts .....	2, 500	1, 514	995	543	966	1, 600	5, 012	3, 109	-38
Michigan .....	5, 061	2, 729	1, 565	1, 690	1, 967	3, 522	11, 481	7, 179	-37
Minnesota .....	1, 281	995	508	284	399	804	2, 382	1, 487	-38
Mississippi .....	295	183	171	163	155	179	901	497	-45
Missouri .....	1, 450	677	396	525	676	989	3, 418	2, 190	-36
Montana .....	151	126	42	55	31	113	384	199	-48
Nebraska .....	589	260	136	100	237	305	1, 034	642	-38
Nevada .....	491	183	75	149	120	151	864	420	-51
New Hampshire .....	107	161	43	52	44	125	234	221	- 6
New Jersey .....	4, 046	2, 795	2, 302	1, 883	2, 154	2, 846	10, 519	6, 883	-35
New Mexico .....	385	405	281	412	368	446	941	1, 226	+30
New York .....	6, 821	5, 160	3, 802	2, 916	3, 256	4, 422	16, 727	10, 598	-37
North Carolina .....	1, 126	702	502	707	710	719	3, 149	2, 136	-32
North Dakota .....	40	100	37	3	4	68	72	75	+ 4
Ohio .....	4, 466	2, 912	1, 934	1, 637	2, 494	3, 815	9, 898	7, 946	-20
Oklahoma .....	706	416	363	574	386	493	1, 933	1, 453	-25
Oregon .....	680	355	226	254	402	373	1, 543	1, 029	-33
Pennsylvania .....	3, 635	2, 158	1, 618	1, 530	1, 313	2, 383	7, 045	5, 227	-26
Rhode Island .....	257	252	130	66	111	218	584	395	-32
South Carolina .....	428	257	191	324	339	263	1, 252	926	-26
South Dakota .....	140	85	49	32	22	48	225	102	-55
Tennessee .....	1, 260	647	602	525	726	763	3, 236	2, 014	-38
Texas .....	5, 048	2, 690	2, 405	4, 254	3, 997	4, 187	13, 527	12, 438	- 8
Utah .....	753	387	185	291	474	520	1, 658	1, 285	-22
Vermont .....	12	35	7	12	7	21	38	40	+ 5
Virginia .....	2, 633	1, 153	1, 042	1, 263	1, 344	1, 498	6, 265	4, 105	-34
Washington .....	1, 668	1, 043	743	805	678	1, 147	3, 685	2, 630	-29
West Virginia .....	308	176	111	113	150	220	649	483	-26
Wisconsin .....	2, 036	1, 377	938	708	870	1, 727	4, 138	3, 305	-20
Wyoming .....	156	48	49	42	39	81	290	162	-44

Source: Department of Labor.

## CONSTRUCTION REVIEW

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Table C-7: Building Permit Activity: Valuation, in Selected Metropolitan Areas

(Millions of dollars)									
Metropolitan area	1956			1957			First 3 months		Percent change, 1st 3 mos. 1956-57
	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	1956	1957	
Atlanta, Ga. ....	12.0	9.7	7.5	10.8	13.5	12.4	34.2	36.7	+ 7
Baltimore, Md. ....	21.7	17.4	17.5	14.5	27.0	14.8	54.7	56.3	+ 3
Birmingham, Ala. ....	8.0	6.3	5.0	6.2	4.5	5.0	18.6	15.8	-15
Boston, Mass. ....	17.7	24.3	14.1	10.8	19.8	32.7	45.2	63.3	+40
Buffalo, N. Y. ....	20.2	10.0	6.1	6.0	9.0	12.3	34.5	27.3	-21
Chicago, Ill. ....	118.6	86.5	67.8	63.7	84.4	98.5	270.1	246.7	- 9
Cleveland, Ohio ....	38.3	23.1	13.9	12.0	22.3	29.5	81.1	63.9	-21
Columbus, Ohio ....	9.1	7.2	7.1	4.5	9.6	10.5	27.2	24.7	- 9
Denver, Colo. ....	14.4	11.3	8.8	14.8	11.8	15.8	42.9	42.4	- 1
Detroit, Mich. ....	61.1	38.4	23.7	29.2	33.6	49.2	148.5	112.0	-25
Indianapolis, Ind. ....	7.7	8.8	4.6	6.2	8.1	15.3	22.6	29.8	+31
Los Angeles, Calif. ....	159.3	117.8	103.3	109.0	108.4	141.2	428.3	358.6	-16
Miami, Fla. ....	23.1	16.7	16.9	22.5	23.0	26.4	58.4	71.9	+23
Milwaukee, Wis. ....	16.2	12.2	8.7	8.6	17.4	15.6	36.3	41.6	+15
New York-Northeastern N. Jersey..	117.3	104.9	105.4	79.0	86.4	109.0	320.5	274.6	-14
Norfolk-Portsmouth, Va. ....	5.5	4.3	2.7	3.8	4.4	4.3	12.7	12.6	- 1
Philadelphia, Pa. ....	44.2	28.5	31.6	25.8	37.7	31.6	104.5	95.1	- 9
Phoenix, Ariz. ....	10.7	10.8	8.5	10.3	9.9	10.1	30.8	30.4	- 1
Rochester, N. Y. ....	4.6	4.6	3.0	2.9	3.2	5.0	10.2	11.2	+10
Salt Lake City, Utah ....	6.3	4.7	2.6	3.0	3.8	7.1	15.2	13.9	- 9
San Diego, Calif. ....	22.4	18.2	18.0	22.0	14.1	18.5	45.2	54.6	+21
San Francisco-Oakland, Calif. ....	45.3	35.4	27.1	30.3	27.2	35.0	114.0	92.5	-19
Seattle, Wash. ....	13.6	11.1	9.4	12.3	12.5	13.3	33.1	38.1	+15
Washington, D. C. ....	28.7	16.6	12.3	16.4	18.5	23.4	72.1	58.4	-19

Source: Department of Labor.

Table C-8: Building Permit Activity: Number of New Dwelling Units, in Selected Metropolitan Areas

(Housekeeping only)									
Metropolitan area	1956			1957			First 3 months		Percent change, 1st 3 mos. 1956-57
	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	1956	1957	
Atlanta, Ga. ....	980	656	427	677	547	680	2,588	1,904	-26
Baltimore, Md. ....	1,471	654	771	829	1,493	1,035	3,187	3,357	+ 5
Birmingham, Ala. ....	447	274	247	347	287	378	1,141	1,012	-11
Boston, Mass. ....	836	683	525	258	550	722	2,079	1,530	-26
Buffalo, N. Y. ....	1,517	491	264	302	238	645	2,310	1,185	-49
Chicago, Ill. ....	5,863	3,075	3,091	2,161	3,025	4,313	12,148	9,499	-22
Cleveland, Ohio ....	1,188	688	404	355	602	1,042	2,716	1,999	-26
Columbus, Ohio ....	491	380	351	244	367	391	1,398	1,002	-28
Denver, Colo. ....	1,068	531	613	638	554	698	2,500	1,890	-24
Detroit, Mich. ....	3,669	1,731	809	945	1,240	2,379	8,182	4,564	-44
Indianapolis, Ind. ....	407	500	301	196	255	436	913	887	- 3
Los Angeles, Calif. ....	8,916	6,031	5,244	6,501	6,551	8,801	26,546	21,853	-18
Miami, Fla. ....	1,677	1,262	1,166	1,419	1,282	1,643	4,290	4,344	+ 1
Milwaukee, Wis. ....	921	650	538	431	515	881	1,987	1,827	- 8
New York-Northeastern N. Jersey...	6,644	5,306	4,473	3,236	3,643	4,569	17,562	11,452	-35
Norfolk-Portsmouth, Va. ....	338	219	199	131	177	188	833	496	-40
Philadelphia, Pa. ....	2,669	1,437	943	1,253	928	1,410	5,989	3,592	-40
Phoenix, Ariz. ....	922	840	620	992	858	704	2,274	2,554	+12
Rochester, N. Y. ....	257	189	115	144	123	233	604	500	-17
Salt Lake City, Utah ....	374	254	101	203	189	215	985	607	-38
San Diego, Calif. ....	1,336	1,407	1,117	1,119	1,125	1,165	3,142	3,409	+ 8
San Francisco-Oakland, Calif. ....	2,829	1,271	1,095	1,201	1,235	1,312	5,928	3,748	-37
Seattle, Wash. ....	747	428	442	543	368	542	1,869	1,453	-22
Washington, D. C. ....	1,564	515	551	715	829	1,062	3,626	2,606	-28

Source: Department of Labor.

## CONSTRUCTION REVIEW

Table C-9: Building Permit Activity: Valuation in Selected Metropolitan Areas by Type of Building Construction

March 1957 (Thousands of dollars)

Type of building construction	Atlanta, Ga.	Baltimore, Md.	Birmingham, Ala.	Boston, Mass.	Buffalo, N. Y.	Chicago, Ill.	Cleveland, Ohio	Columbus, Ohio
All building construction <sup>1</sup> .....	12,437	14,824	5,005	32,697	12,306	98,531	29,526	10,481
New dwelling units <sup>2</sup> .....	6,525	9,112	2,924	8,290	6,533	59,975	16,493	6,360
New nonresidential building.....	4,365	4,658	958	21,874	4,729	32,138	11,205	2,921
Commercial buildings.....	2,897	577	780	10,434	1,551	16,574	3,021	810
Amusement buildings.....	15	20	42	76	0	306	0	234
Commercial garages.....	0	7	0	42	29	293	6	0
Gasoline and service stations.....	119	117	148	62	111	660	370	173
Office buildings.....	1,794	85	190	1,150	30	11,780	569	134
Stores and other mercantile bldgs..	970	349	401	9,103	1,381	3,537	2,075	269
Community buildings.....	734	3,580	75	6,924	1,315	6,603	4,646	988
Educational buildings.....	368	3,190	22	5,494	909	3,152	3,236	0
Institutional buildings.....	200	0	0	1,400	0	830	600	0
Religious buildings.....	166	390	53	30	406	2,620	810	988
Garages, private residential.....	21	88	34	127	177	1,724	396	212
Industrial buildings.....	109	302	27	1,593	1,151	5,122	2,269	127
Public buildings.....	0	0	0	647	0	75	523	774
Public utilities buildings.....	584	50	0	2,131	161	969	260	0
All other nonresidential buildings.....	20	61	42	19	374	1,072	92	10
Additions, alterations, and repairs.....	1,543	1,054	1,122	2,448	1,029	6,283	1,722	1,200
	Denver, Colo.	Detroit, Mich.	Indianapolis, Ind.	Los Angeles, Calif.	Miami, Fla.	Milwaukee, Wis.	New York-Northeastern New Jersey	Norfolk-Portsmouth Va.
All building construction <sup>1</sup> .....	15,832	49,177	15,303	141,224	26,371	15,562	109,038	4,337
New dwelling units <sup>2</sup> .....	7,196	30,155	5,697	92,269	14,186	10,249	59,273	2,252
New nonresidential building.....	6,838	14,109	8,747	34,624	5,528	3,870	39,440	1,745
Commercial buildings.....	1,919	3,103	7,092	11,260	1,184	614	14,236	385
Amusement buildings.....	175	66	0	287	50	0	669	48
Commercial garages.....	0	72	0	190	0	7	635	0
Gasoline and service stations.....	146	463	222	389	111	139	594	120
Office buildings.....	1,042	671	1,608	4,715	261	332	4,534	24
Stores and other mercantile bldgs..	556	1,831	5,262	5,679	761	136	7,803	193
Community buildings.....	449	5,676	609	9,601	3,046	2,354	17,088	1,285
Educational buildings.....	290	5,231	535	6,410	2,870	1,871	10,126	1,205
Institutional buildings.....	23	0	0	1,002	80	0	3,200	0
Religious buildings.....	136	446	74	2,189	96	483	3,761	80
Garages, private residential.....	177	1,445	208	1,028	78	334	953	55
Industrial buildings.....	4,078	1,203	771	5,625	872	566	5,016	0
Public buildings.....	0	79	0	104	106	0	492	11
Public utilities buildings.....	174	2,500	0	2,860	8	0	818	0
All other nonresidential buildings.....	41	104	67	4,145	234	2	838	10
Additions, alterations, and repairs.....	1,198	4,892	860	13,232	2,457	1,443	10,236	318
	Philadelphia, Pa.	Phoenix, Ariz.	Rochester, N. Y.	Salt Lake City, Utah	San Diego, Calif.	San Francisco-Oakland, Calif.	Seattle, Wash.	Washington, D. C.
All building construction <sup>1</sup> .....	31,621	10,141	5,014	7,118	18,499	35,016	13,257	23,419
New dwelling units <sup>2</sup> .....	16,933	5,907	2,842	3,117	10,787	15,610	6,124	13,587
New nonresidential building.....	9,462	3,544	1,775	3,536	6,186	12,870	5,816	5,712
Commercial buildings.....	3,472	578	163	2,164	488	2,988	830	1,720
Amusement buildings.....	521	15	0	115	157	236	225	28
Commercial garages.....	611	3	0	0	0	41	0	12
Gasoline and service stations.....	305	128	49	76	75	316	56	258
Office buildings.....	1,286	69	30	1,941	141	1,365	87	480
Stores and other mercantile bldgs..	750	364	84	33	116	1,030	462	943
Community buildings.....	1,329	2,171	1,219	809	767	3,263	3,920	1,625
Educational buildings.....	462	1,940	1,142	809	201	2,527	3,500	1,351
Institutional buildings.....	43	0	0	0	0	389	90	0
Religious buildings.....	824	230	77	0	566	348	330	274
Garages, private residential.....	399	14	94	70	178	184	57	70
Industrial buildings.....	2,069	246	190	39	2,620	2,705	776	120
Public buildings.....	1,425	25	99	0	1,601	822	56	2,018
Public utilities buildings.....	182	433	0	0	150	383	58	0
All other nonresidential buildings.....	587	78	10	454	382	2,525	120	159
Additions, alterations, and repairs.....	5,046	667	397	329	1,437	6,434	1,317	4,120

Source: Department of Labor. <sup>1</sup> Includes new nonhousekeeping residential building, not shown separately.<sup>2</sup> Housekeeping only.



# Part D--Contracts

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Table D-1: Contract Awards: Public Construction, by Ownership and Type of Construction<sup>1</sup>

Ownership and type of construction <sup>2</sup>	Value (in millions of dollars)									Percent change, first 4 months 1956-57
	1956			1957			First 4 months			
	Apr.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	1956	1957	
TOTAL PUBLIC CONSTRUCTION .....	930.6	769.4	823.9	920.3	768.0	1,104.1	958.1	3,276.2	3,750.5	+14
FEDERALLY OWNED .....	220.2	119.0	176.4	207.2	217.2	342.1	296.2	645.7	1,062.7	+65
Residential buildings .....	9.9	1.2	19.9	30.2	19.3	115.4	21.5	45.7	186.4	(3)
Nonresidential buildings .....	119.7	57.3	50.8	86.7	67.2	71.0	46.8	296.1	271.7	- 8
Educational .....	2.9	.9	1.4	20.5	1.5	4.0	1.7	6.1	27.7	(3)
Hospital and institutional .....	3.5	.5	1.1	16.1	2.0	4.6	.4	13.8	23.1	+67
Administrative and service .....	6.5	3.0	3.8	4.5	1.5	3.5	4.5	21.9	14.0	-36
Other nonresidential bldgs. ....	106.8	52.9	44.5	45.6	62.2	58.9	40.2	254.3	206.9	-19
Airfield buildings .....	4.4	6.4	3.0	5.6	9.3	11.6	7.4	31.9	33.9	+ 6
Troop housing .....	8.1	4.7	11.7	5.6	16.4	7.7	9.8	29.6	39.5	+33
Warehouses .....	32.6	1.2	3.6	3.5	5.8	4.0	2.7	37.6	16.0	-57
All other .....	61.7	40.6	26.2	30.9	30.7	35.6	20.3	155.2	117.5	-24
Airfields .....	17.2	21.6	28.0	7.9	27.0	49.7	34.7	57.2	119.3	+109
Conservation and development .....	53.3	26.5	62.6	50.2	49.7	83.1	143.0	190.5	326.0	+71
Highways .....	4.8	8.8	7.1	9.3	3.4	4.1	14.4	18.3	31.2	+70
Electric power .....	5.0	2.1	3.9	7.9	25.6	2.9	23.3	14.6	59.7	(3)
All other federally owned .....	10.3	1.5	4.1	15.0	25.0	15.9	12.5	23.3	68.4	+194
STATE AND LOCALLY OWNED .....	710.4	650.4	647.5	713.1	550.8	762.0	661.9	2,630.5	2,687.8	+ 2
Residential buildings .....	18.3	17.6	13.8	21.8	31.4	7.4	14.7	89.6	75.3	-16
Nonresidential buildings .....	295.3	253.5	272.2	252.8	256.1	300.8	256.2	1,014.4	1,065.9	+ 5
Educational .....	204.1	189.3	211.5	184.9	175.9	234.9	191.6	757.4	787.3	+ 4
Hospital and institutional .....	23.5	15.3	13.9	12.6	27.4	15.8	17.4	79.6	73.2	- 8
Administrative and service .....	30.6	21.0	22.9	23.3	29.2	25.0	20.1	90.9	97.6	+ 7
Other nonresidential bldgs. ....	37.1	27.9	23.9	32.0	23.6	25.1	27.1	86.5	107.8	+25
Highways .....	265.3	278.1	240.5	317.1	186.2	349.6	289.5	1,024.9	1,142.4	+11
Sewer and water systems .....	89.6	65.2	80.8	68.9	55.4	75.4	67.7	364.0	267.4	-27
Sewer .....	51.3	36.2	49.1	37.3	16.6	43.6	44.1	239.3	141.6	-41
Water .....	38.3	29.0	31.7	31.6	38.8	31.8	23.6	124.7	125.8	+ 1
Public service enterprises .....	19.3	25.2	31.2	33.1	11.7	17.4	18.8	58.7	81.0	+38
Electric power .....	12.4	17.9	11.2	17.1	8.2	7.7	9.0	36.1	42.0	+16
Other .....	6.9	7.3	20.0	16.0	3.5	9.7	9.8	22.6	39.0	+73
Conservation and development .....	14.7	5.8	4.1	12.0	5.1	4.5	8.6	49.0	30.2	-38
All other State and locally owned .....	7.9	5.0	4.9	7.4	4.9	6.9	6.4	29.9	25.6	-14

Source: Departments of Commerce and Labor. <sup>1</sup> Includes major force-account projects started, principally by TVA and State highway departments. <sup>2</sup> Types not shown separately are included in the appropriate "other" category. <sup>3</sup> Percent increase exceeds 300.

Table D-2: Contract Awards: Highway Construction, by Ownership, Source of Funds, and Type of Facility<sup>1</sup>

Ownership, source of funds, and type of facility	Value (in millions of dollars)									Percent change, first 4 months 1956-57
	1956			1957				First 4 months		
	Apr.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	1956	1957	
ALL HIGHWAY CONSTRUCTION.....	270.1	286.9	247.6	326.4	189.6	353.7	303.9	1,043.2	1,173.6	+13
FEDERALLY OWNED.....	4.8	8.8	7.1	9.3	3.4	4.1	14.4	18.3	31.2	+70
STATE OWNED.....	219.0	239.2	207.8	292.1	167.5	320.7	244.3	920.9	1,024.6	+11
Federally aided projects:										
Total value .....	127.0	197.5	159.6	205.8	130.7	173.4	172.3	515.0	682.2	+32
Federal funds .....	64.3	128.2	100.3	135.8	83.7	113.5	111.2	265.6	444.2	+67
Independent State projects:										
Total value .....	92.0	41.7	48.2	86.3	36.8	147.3	72.0	405.9	342.4	-16
Toll facilities.....	17.5	9.8	17.4	41.6	3.1	97.8	22.9	200.3	165.4	-17
LOCALLY OWNED <sup>2</sup> .....	46.3	38.9	32.7	25.0	18.7	28.9	45.2	104.0	117.8	+13

Source: Departments of Commerce and Labor. <sup>1</sup> Includes force-account work started on Federal and State projects. <sup>2</sup> By municipalities and counties.



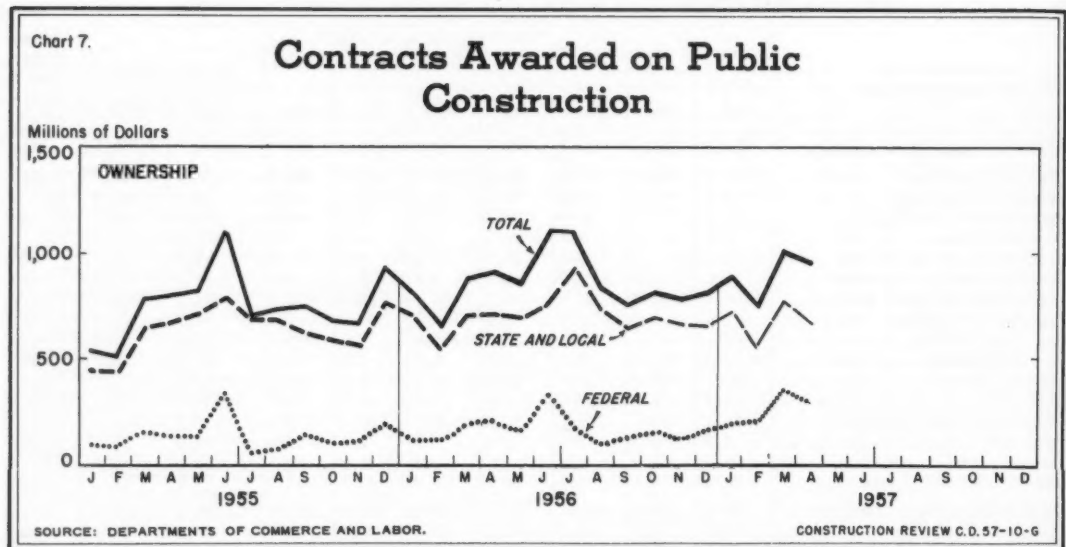


Table D-3: Value of Construction Contracts Reported by the F. W. Dodge Corporation

Type of construction	Value (in millions of dollars)			Percent change, first 5 months, 1956-57
	May 1957	First 5 months		
		1957	1956	
TOTAL.....	3,400	13,715	13,246	+ 4
Building construction.....	2,417	10,113	10,251	- 1
Residential .....	1,297	5,328	5,596	- 5
Nonresidential.....	1,120	4,785	4,655	+ 3
Engineering.....	983	3,602	2,995	+20
Public works .....	654	2,320	2,221	+ 4
Utilities .....	329	1,282	774	+66

Source: Table compiled by Department of Commerce from data published by the F. W. Dodge Corporation.

Table D-4: Value of Construction Contract Awards Reported by the Engineering News-Record

Ownership and type of construction	Value (in millions of dollars)			Percent change
	June 1957 <sup>1</sup>	12 months ending--		12 months ending in June, 1956-57
		June 1957	June 1956	
<b>TOTAL.....</b>	<b>1,561</b>	<b>19,794</b>	<b>20,661</b>	<b>- 4</b>
Privately owned .....	730	10,708	12,961	-17
Publicly owned .....	831	9,086	7,700	+18
Private industrial buildings .....	302	4,221	4,533	- 7
Buildings, except private industrial .....	640	8,518	9,673	-12
Highways and bridges .....	378	3,484	2,891	+21
Sewer systems.....	69	530	509	+ 4
Water systems.....	20	399	344	+16
Unclassified and all other.....	152	2,642	2,711	- 3

Source: Table compiled by Department of Commerce from data published by the Engineering News-Record. Data include only those projects with contract values above the following minimum sizes: Water supply, earthwork, and waterways--\$44,000; other public works--\$73,000; industrial buildings--\$93,000; other buildings--\$344,000.

<sup>1</sup> Four weeks.

# Part E-Costs

29

Table E-1: Construction Cost Indexes

Compiler and coverage	Indexes (1947-49 = 100)									Percent change, May 1956-57
	1956	1957						1954	1955	1956
	Dec.	Jan.	Feb.	Mar.	Apr.	May	May	May	May	May
American Appraisal Company .....	138	138	139	139	139	140	125	128	134	+ 4
Associated General Contractors .....	145	146	146	146	146	148	131	135	141	+ 5
E. H. Boeckh and Associates (20 city average):										
Residences .....	130.4	130.5	130.6	130.7	130.9	131.6	119.5	123.3	129.8	+ 1
Apartments, hotels, and office buildings .....	138.9	139.2	139.4	139.5	139.8	140.6	126.3	129.5	136.9	+ 3
Commercial and factory buildings .....	140.9	141.2	141.6	141.7	142.0	142.9	127.0	130.6	138.4	+ 3
Engineering News-Record: <sup>1</sup>										
Building .....	148.7	149.2	149.8	149.0	149.0	149.5	130.2	137.5	144.9	+ 3
Construction .....	156.3	157.2	158.0	157.4	157.5	158.9	137.4	145.1	152.9	+ 4
Department of Commerce composite <sup>2</sup> .....	134	134	135	135	135	137	121	124	131.	+ 5

Source: Department of Commerce. <sup>1</sup> Engineering News-Record publishes its cost indexes for a given month approximately on the first of that month, on a 1913=100 base. In calculating the Department of Commerce composite index, on a 1947-49=100 base, the ENR indexes are used as though they were for the preceding month in order to make them more comparable with other indexes. Heretofore these adjusted figures were published in Construction Review and this has caused some misunderstandings. Therefore, beginning with this issue, the ENR indexes are being published without adjustment, except for conversion to a 1947-49 base. <sup>2</sup> A composite of cost indexes representative of the major types of construction, weighted by the current relative importance of each type.

Table E-2: Indexes of Wholesale Prices of Building Materials, by Selected Classes

Commodity	Indexes (1947-49 = 100)									Percent change, May 1956-57
	1956	1957						1954	1955	1956
	Dec.	Jan.	Feb.	Mar.	Apr.	May	May	May	May	May
<b>ALL BUILDING MATERIALS</b> <sup>1</sup> .....	130.5	130.5	130.5	130.5	130.7	130.7	118.6	124.1	130.8	- 1
<b>LUMBER AND WOOD PRODUCTS:</b>										
Lumber .....	122.5	122.6	121.9	121.2	121.2	120.6	115.0	124.2	130.4	- 8
Douglas fir .....	120.0	121.2	120.3	119.6	119.8	118.4	114.4	130.5	135.7	-13
Southern pine .....	119.0	117.8	116.1	115.5	115.1	114.8	107.5	114.0	120.2	- 5
Other softwoods .....	133.0	133.5	133.7	133.3	134.0	134.1	129.7	137.3	140.3	- 4
Hardwoods .....	123.1	122.3	121.8	120.6	120.3	119.6	112.0	117.9	128.4	- 7
Millwork .....	128.5	128.7	128.7	128.7	128.3	128.3	130.8	129.3	129.2	- 1
Plywood .....	94.6	97.1	96.4	96.2	96.7	96.8	101.4	105.6	102.7	- 6
Softwood .....	87.3	92.1	91.6	91.1	92.1	92.4	102.5	110.5	103.1	-10
Hardwood .....	104.2	104.2	103.4	103.4	103.4	103.4	100.7	102.6	104.4	- 1
<b>PAINT AND PAINT MATERIALS:</b>										
Prepared paint .....	124.1	124.1	124.1	124.1	124.1	124.7	112.8	114.8	119.1	+ 5
Paint materials .....	99.5	99.0	100.6	100.1	99.8	99.8	95.3	97.0	101.2	- 1
<b>METAL PRODUCTS:</b>										
Structural shapes .....	170.5	179.1	183.4	183.4	183.4	183.4	141.3	146.2	157.5	+16
Hardware, finish .....	150.2	151.2	151.2	150.8	153.7	155.9	135.8	139.9	147.2	+ 6
Plumbing equipment .....	133.9	133.4	133.4	132.0	130.6	130.1	118.2	123.3	135.0	- 4
Enameled iron fixtures .....	125.3	125.3	125.3	125.9	127.7	127.7	129.2	129.3	125.3	+ 2
Vitreous china fixtures .....	124.1	124.1	124.1	124.2	124.2	124.2	111.7	117.3	124.2	0
Brass fittings .....	142.6	142.6	142.6	139.9	138.5	136.9	115.9	123.4	143.9	- 5
Heating equipment .....	122.1	122.3	122.8	121.6	121.6	121.5	113.9	113.5	117.3	+ 4
Furnaces .....	130.6	129.8	130.4	127.1	127.2	127.2	120.6	119.8	124.0	+ 3
Water heaters .....	107.9	109.1	109.1	109.1	109.0	107.9	107.9	107.4	106.6	+ 1
Metal sash .....	148.3	139.4	138.1	138.1	138.1	138.1	127.3	133.2	140.9	- 2
<b>NONMETALLIC MINERAL PRODUCTS:</b>										
Glass, plate .....	145.7	145.7	145.7	145.7	145.7	145.7	132.0	132.0	137.5	+ 6
Glass, window .....	145.9	145.9	145.9	145.9	145.9	145.9	131.3	135.1	138.8	+ 5
Concrete ingredients .....	131.7	134.6	134.8	135.1	135.7	135.7	120.0	124.7	130.1	+ 4
Portland cement .....	141.4	145.9	145.9	145.9	147.2	147.2	124.9	131.5	138.9	+ 6
Concrete products .....	125.3	125.6	125.6	125.7	126.6	126.7	117.3	118.2	121.7	+ 4
Structural clay products .....	150.5	150.6	150.7	150.8	155.0	155.0	132.0	137.0	146.1	+ 6
Gypsum products .....	127.1	127.1	127.1	127.1	127.1	127.1	122.1	122.1	127.1	0
Asphalt roofing .....	114.4	111.2	115.3	118.2	121.6	125.8	96.3	105.8	111.9	+12
Insulation materials .....	100.3	100.3	100.3	103.1	103.1	103.1	110.1	106.7	100.7	+ 2
<b>MISCELLANEOUS PRODUCTS:</b>										
Building board .....	138.1	141.1	141.1	141.1	141.7	141.7	127.9	129.7	138.1	+ 3
Kitchen cabinets, metal .....	142.0	142.0	142.0	142.0	142.0	142.0	127.6	128.2	136.5	+ 4

Source: Department of Labor.

<sup>1</sup> Includes items not shown separately.

Table E-3: Wholesale Prices of Selected Building Materials

Commodity	Unit	1957		1956
		Apr.	Mar.	Apr.
<b>LUMBER</b>				
Douglas fir:				
Dimension, construction, 25% No. 2, green, S4S, 2"x4", R.L., mixed c/l, f.o.b. mill.....	M bd. ft.	\$66.297	\$65.723	\$78.211
Boards, construction, 25% No. 2, green, S4S, R.L., 1"x8", loose, mixed c/l of boards and dimension, f.o.b. mill.....	M bd. ft.	59.658	59.796	71.450
Timbers, construction, 8"x8" to 12"x12", R.L., green, f.o.b. mill.....	M bd. ft.	75.782	76.062	86.331
Southern pine:				
Dimension, No. 2 and better, 2"x4"x16', dry, S.L., S4S, f.o.b. mill .....	M bd. ft.	85.397	85.520	85.765
Boards, No. 2 and better, 1"x6", dry, R.L., S4S, f.o.b. mill .....	M bd. ft.	77.785	78.135	83.826
Ponderosa pine boards, No. 3 common, 1"x8", R.L., S2 or 4S, c/l or mixed cars, f.o.b. mill .....	M bd. ft.	74.190	73.380	83.500
Oak, red, flooring, plain, 25/32" thick, 2-1/4" face, select, f.o.b. mill .....	M bd. ft.	171.112	171.112	200.489
Maple flooring 2d grade, 25/32" x2-1/4" face, f.o.b. mill .....	M bd. ft.	215.600	213.366	200.826
Poplar, plain, No. 2B common, 4/4", R.W., f.o.b. mill .....	M bd. ft.	60.000	60.000	60.000
Beech, No. 2 common, 4/4", R.W. & L., f.o.b. mill .....	M bd. ft.	56.000	56.000	55.000
<b>MILLWORK</b>				
Door, flush type, interior, hardwood face, premium grade, 2'6"x6'8"x1-3/8", f.o.b. factory, carlot freight allowed, zone 1 .....	Each	8.009	8.009	(1)
Door frame, ponderosa pine, exterior, 1-5/16"x2" casing, with sill, f.o.b. factory.....	Each	9.418	9.418	9.372
Window, ponderosa pine, 2-light, check rail, open, f.o.b. factory.....	Each	1.673	1.673	1.681
<b>PLYWOOD</b>				
Douglas fir, interior, grade A-D, 1/4"x48"x96", f.o.b. mill.....	M sq. ft.	68.448	68.448	84.279
Douglas fir, interior, grade C-D, 5/16"x48"x96", f.o.b. mill .....	M sq. ft.	55.139	53.237	64.936
<b>BOARD</b>				
Insulation, fiber, 1/2"x48"x96", interior, f.o.b. plant, freight equalized .....	M sq. ft.	59.000	58.500	57.500
<b>PREPARED PAINT</b>				
Emulsion, water-thinned, inside, delivered.....	Gallon	2.657	2.657	2.510
Varnish, floor, first grade, delivered .....	Gallon	4.002	4.002	3.874
Enamel, white, gloss, first grade, delivered.....	Gallon	4.980	4.980	4.802
Inside, flat, white, first grade, delivered .....	Gallon	3.264	3.264	3.116
Outside, white, first grade, delivered .....	Gallon	4.656	4.656	4.477
<b>METAL PRODUCTS</b>				
Structural shapes, carbon steel, 6"x4"x1/2" angles, 30' long, ASTM spec. A-7, base quantity, f.o.b. mill .....	100 lb.	5.667	5.667	4.867
Bars, reinforcing, carbon steel, 3/4" rounds x 30' long with 10% shorts, spec. ASTM A-15, 50T, base quantity, f.o.b. mill .....	100 lb.	5.788	5.788	5.313
Sheets, galvanized, carbon steel, 24 gage x 30" wide x 96" long, commercial coating, base chemistry, base packaging, base quantity, f.o.b. mill .....	100 lb.	8.220	8.220	7.770
Pipe, standard, black, carbon steel, butt weld, threaded and coupled, 1-1/4" nominal, random lengths, wt. 228 lbs., f.o.b. mill .....	100 ft.	18.894	18.894	16.997
Pipe, standard, galvanized, carbon steel, butt weld, threaded and coupled, 1-1/4" nominal, random lengths, wt. 228 lbs., f.o.b. mill.....	100 ft.	23.034	23.034	21.137
Nails, wire, carbon steel, 8-penny, common, c/l, f.o.b. mill .....	100 lb. keg	9.365	9.365	8.595
Soil pipe, cast iron, 2" to 6", single and double hub, service pipe, extra heavy, f.o.b. foundry, index number (1947-49 = 100).....	Ton	(116.2)	(116.2)	(111.3)
Aluminum sheets, 3003-H14, hard alloy, mill finish, 0.64"x48"x144", 30,000 lbs. or over, f.o.b. shipping point, freight allowed .....	Pound	\$0.427	\$0.427	\$0.408
Copper water tubing, type L, 3/4" size, 0.045" thick, 2,000 ft. or more in 60' coils (0.455 lbs. per linear ft.), f.o.b. mill, freight allowed .....	Foot	.287	.287	.350
Wire, building, type R, size 12, single braid, f.o.b. destination, or freight prepaid on specified amounts .....	M ft.	19.600	19.600	23.120
Screening, insect, bronze wire, 18x14 mesh, 30" wide, c/l, f.o.b. factory.....	Linear ft. roll	29.387	30.680	30.780
<b>PLUMBING EQUIPMENT</b>				
Bath tub, enameled iron, 5', recessed, f.o.b. factory, freight allowed.....	Each	56.563	55.546	55.113
Lavatory, enameled iron, 20"x18", f.o.b. plant, freight allowed .....	Each	13.497	13.497	13.497
Water closet, vitreous china, close coupled, reverse trap, f.o.b. plant, freight allowed .....	Each	24.684	24.684	24.682
Sink, enameled steel, 32"x21", flat rim, 2-compartment, acid resisting, without drainboard, f.o.b. plant, freight allowed .....	Each	14.174	14.174	16.634

See footnotes at end of table.

Table E-3: Wholesale Prices of Selected Building Materials--Continued

Commodity	Unit	1957		1956
		Apr.	Mar.	Apr.
<b>HEATING EQUIPMENT</b>				
Boiler, heating, steel, oil fired, steam rating 400 sq. ft., less burner, with jacket and standard trim, f.o.b. factory, freight allowed .....	Each	\$196.797	\$196.797	\$190.342
Convactor, nonferrous, free standing, average steam rating 43 sq. ft., E.D.R., f.o.b. factory, freight allowance .....	Sq. ft., incl. enclosure	.458	.458	.451
<b>Furnace, warm air:</b>				
Steel, oil fired, forced air, gun-type burner, average bonnet output 90,000-115,000 BTU per hr., f.o.b. factory, freight allowance .....	Each	251.881	251.881	239.662
Steel, gas fired, standard automatic controls, average input rating 85,000-110,000 BTU per hr., enclosing jacket, f.o.b. factory, freight allowance .....	Each	168.302	168.302	165.998
Furnace, floor, gas fired, floor grill, average input rating 40,000-60,000 BTU per hr., manual controls, f.o.b. factory .....	Each	58.283	57.541	57.217
Oil burner, mechanical forced draft (gun-type) 2-1/2 gal. per hr., thermostat, limit and stack controls, f.o.b. factory .....	Each	107.171	107.171	100.961
Water heater, gas, automatic, 30-gal. storage tank, galvanized steel, 1-year guarantee, f.o.b. factory, freight allowed .....	Each	41.640	41.640	39.092
<b>NONMETALLIC MINERAL PRODUCTS</b>				
Sand, construction, f.o.b. plant .....	Ton	1.270	1.265	1.221
Gravel, for concrete, 1-1/2" maximum, f.o.b. plant .....	Ton	1.556	1.557	1.503
Crushed stone, for concrete, 1-1/2" maximum, f.o.b. plant .....	Ton	1.646	1.650	1.609
Block, concrete, lightweight aggregate, 8"x8"x16", f.o.b. plant .....	Each	.186	.183	.179
Pipe, concrete, culvert, reinforced, 24" diameter, ASTM spec. C76-41 table 1, 3" wall thickness, 3'-8' lengths, delivered .....	Foot	4.153	4.122	3.931
Brick, building, f.o.b. plant .....	Thousand	30.814	30.814	30.470
Brick, face, red, first quality, textured, f.o.b. plant .....	Thousand	39.832	39.998	39.248
Tile, clay, partition, scored, 4"x12"x12", 3-cell, 16 lbs., f.o.b. plant .....	Thousand	134.556	134.556	134.556
Sewer pipe, vitrified clay, 8" diameter, 3' lengths, standard strength, f.o.b. plant .....	Foot	.547	.544	.520
Lath, gypsum, 3/8"x16"x48", f.o.b. plant, freight equalized .....	M sq. ft.	25.034	25.034	24.990
Wallboard, gypsum, 3/8"x48", varying lengths, f.o.b. plant, freight equalized .....	M sq. ft.	32.830	32.830	32.830
Plaster, gypsum, base coat, f.o.b. plant, freight equalized .....	Ton	15.928	15.928	15.928
Shingles, asphalt, strip, 210 lbs., f.o.b. factory, freight allowance .....	Square	6.080	5.929	5.595
Lime, hydrated, building, finishing, f.o.b. plant .....	Ton	21.683	21.600	20.194
Siding shingles, asbestos cement, f.o.b. plant, freight equalized .....	Square	11.456	11.341	10.824

Source: Department of Labor. <sup>1</sup> Not available.

(NOTE: Tables E-4 and E-5, Union Wage Scales in the Building Trades, are shown quarterly in the February, May, August, and November issues.)

## Part F--Materials Output

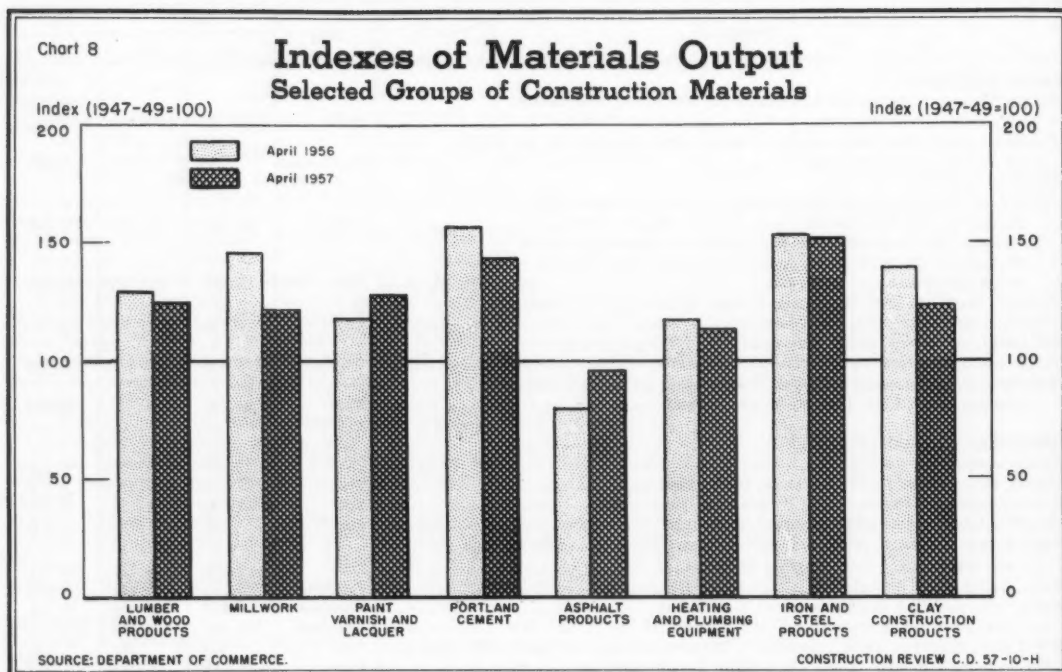


Table F-1: Construction Materials: Indexes of Output

(Monthly average 1947-49 = 100)

Materials group	Monthly Indexes												
	1956									1957			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Lumber and wood products....	129.3	138.6	130.0	119.8	143.1	123.6	138.4	120.5	103.1	113.8	106.1	113.8	124.8
Millwork .....	144.8	145.1	139.5	115.9	159.5	136.8	145.9	122.4	96.0	107.4	116.1	113.0	120.1
Paint, varnish, and lacquer .....	117.9	129.3	124.4	117.5	129.8	113.6	125.5	109.8	91.3	112.6	127.4	112.0	126.5
Portland cement .....	156.3	177.1	172.1	176.5	179.8	171.3	173.8	154.8	146.1	115.5	106.8	135.4	143.4
Asphalt products .....	80.8	113.6	119.8	121.1	127.6	118.0	128.0	88.1	53.1	86.8	91.9	76.6	96.8
Heating and plumbing equipment .....	116.6	125.4	123.3	118.5	156.5	158.0	158.6	113.5	89.1	103.0	101.2	105.6	113.0
Iron and steel products .....	152.2	164.2	164.0	<sup>1</sup> 52.1	140.2	138.2	159.2	145.5	145.1	142.6	135.2	150.8	151.5
Clay construction products..	137.6	146.5	147.3	145.9	155.3	139.0	151.1	137.3	119.1	113.5	102.7	112.9	122.5
	Quarterly Indexes												
	1955				1956				1957				
	Fourth quarter				First quarter				Second quarter				Third quarter
													Fourth quarter
Gypsum products .....	185.4				187.6				188.6				157.3
Plumbing fixtures .....	145.0				140.6				137.4				116.8
													96.2
													141.7
													116.4

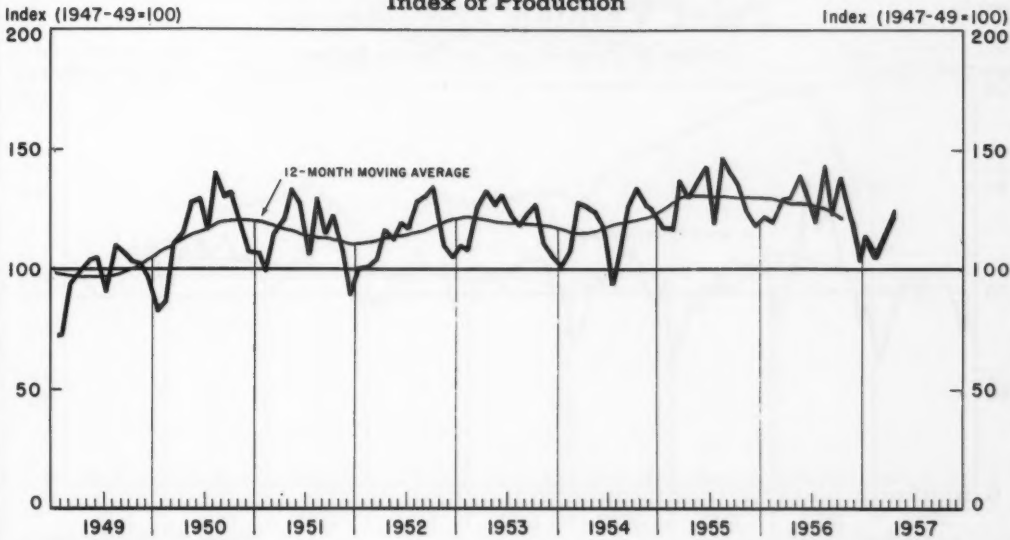
Source: Table compiled by the Department of Commerce from data reported by various Government agencies and by private firms shown in notes to the tables following. <sup>1</sup> Estimated. See Table F-6, footnote 2.



Chart 9.

## Lumber and Wood Products

## Index of Production



SOURCE: DEPARTMENT OF COMMERCE

CONSTRUCTION REVIEW C.D. 57-10-1

Table F-2: Lumber and Wood Products: Production, Shipments, and Stocks

Period	Softwood lumber (Million board feet)			Hardwood flooring (Thousand board feet)			Douglas fir plywood (Million square feet)	Insulating boards (Tons)	Hardboard (Tons)
	Production	Shipments	Stocks*	Production	Shipments	Stocks*	Production		
1947-49 average.....	28,048	27,440	4,448	812,365	789,437	44,455	1,802	766,269	294,214
Year: 1954.....	29,296	29,811	5,261	1,145,118	1,139,091	68,425	3,871	1,007,653	464,868
1955.....	31,601	31,480	5,384	1,268,104	1,258,914	70,045	4,947	1,092,890	517,834
1956.....	30,003	29,259	6,143	1,166,446	1,117,010	114,074	5,191	1,118,907	551,118
12 months ending:									
January 1957.....	29,857	29,148	--	1,156,757	1,104,393	--	5,183	1,111,461	545,393
February 1957.....	29,607	28,811	--	1,137,531	1,084,013	--	5,145	1,096,309	542,697
March 1957.....	29,377	28,449	--	1,111,326	1,065,343	--	5,079	1,072,599	541,678
April 1957.....	29,285	28,340	--	1,095,468	1,055,830	--	5,105	1,055,870	539,727
1956:									
April.....	2,541	2,620	5,311	97,788	94,970	83,056	447	103,267	47,380
May.....	2,796	2,780	5,327	108,891	104,107	87,890	432	106,204	49,185
June.....	2,665	2,603	5,392	100,955	98,374	88,216	372	104,092	46,603
July.....	2,434	2,438	5,388	91,105	90,591	87,593	355	99,354	44,078
August.....	2,880	2,707	5,561	106,847	102,807	93,916	476	101,804	47,548
September.....	2,489	2,300	5,730	91,030	88,493	95,235	412	84,494	44,179
October.....	2,750	2,572	5,910	104,175	96,829	102,681	494	88,386	46,476
November.....	2,368	2,248	6,023	90,162	83,951	108,792	445	74,910	44,824
December.....	2,003	1,883	6,143	74,585	69,278	114,074	397	64,464	40,173
1957:									
January.....	2,159	2,116	6,130	91,310	82,340	123,194	440	85,189	44,006
February.....	2,039	1,951	6,218	78,167	72,782	128,579	405	78,768	41,468
March.....	2,253	2,231	6,240	76,311	80,821	120,826	404	81,667	45,758
April.....	2,449	2,511	6,204	81,930	85,457	115,712	473	86,538	45,429
Percent change									
April, 1956-57.....	- 4	- 4	+17	-16	-10	+39	+ 6	-16	- 4
First 4 mos., 1956-57.....	- 7	- 9	--	-18	-16	--	- 5	-16	- 6

Source: Table compiled by Department of Commerce (BD&A) from data reported by the National Lumber Manufacturers Association, the Douglas Fir Plywood Association, and the Bureau of the Census. \*As of end of period.

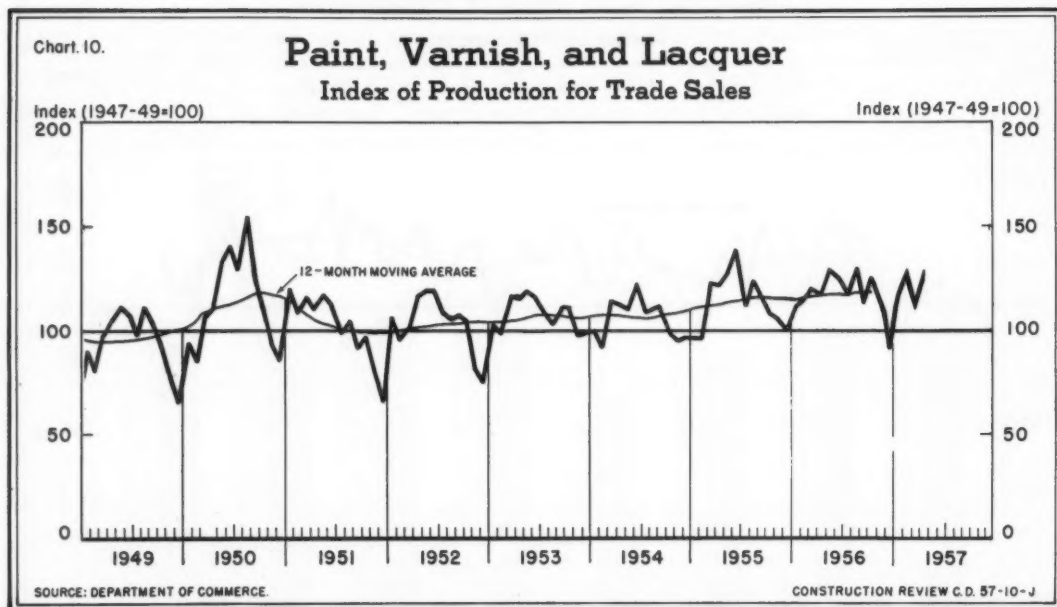


Table F-3: Millwork Products, and Paint, Varnish, and Lacquer: Production

Period	Production (Thousands of units)				Production for trade sales (Thousands of gallons)
	Ponderosa pine doors	Hardwood doors	Sash	Exterior frames	Paint, varnish, & lacquer
1947-49 average .....	3,780	3,172	11,246	4,152	266,701
Year: 1954 .....	2,285	5,940	11,054	5,791	284,458
1955 .....	2,253	6,786	12,733	7,259	312,416
1956 .....	2,035	6,404	10,551	5,679	312,543
12 months ending:					
January 1957 .....	2,020	6,355	10,401	5,574	312,617
February 1957 .....	2,001	6,275	10,173	5,461	315,508
March 1957 .....	1,982	6,098	10,068	5,389	313,640
April 1957 .....	1,994	5,932	10,035	5,377	315,549
1956: April .....	168	618	738	476	26,199
May .....	176	572	913	535	28,738
June .....	164	534	844	569	27,650
July .....	127	445	758	465	26,105
August .....	203	559	1,222	685	28,855
September .....	170	529	1,018	479	25,259
October .....	192	558	1,103	508	27,903
November .....	161	513	799	352	24,407
December .....	137	410	616	245	20,282
1957: January .....	151	431	723	337	25,028
February .....	170	481	668	350	28,314
March .....	163	448	666	388	24,900
April .....	180	452	705	464	28,108
	Percent change				
April, 1956-57 .....	+ 7	-27	- 4	- 3	+ 7
First 4 mos., 1956-57 .....	- 6	-21	-16	-16	+ 3

Source: Table compiled by Department of Commerce (BDSA) from data reported by the National Wood Work Manufacturers Association (whose data on ponderosa pine and hardwood doors, sash and exterior frames are only from member firms, and are not adjusted to represent full coverage), and the Bureau of the Census.

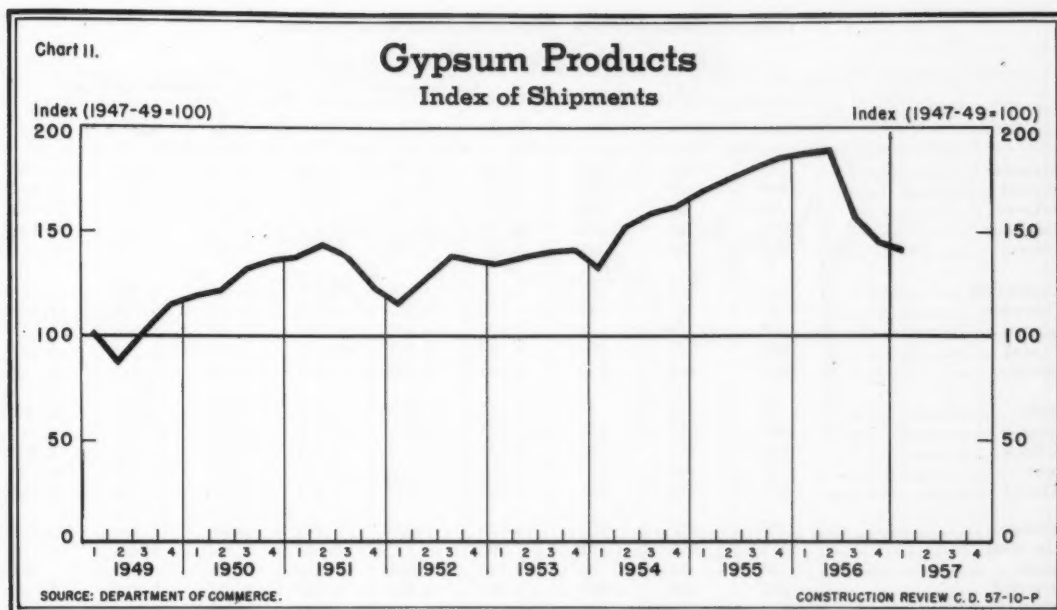


Table F-4: Portland Cement, and Asphalt and Gypsum Products: Production, Shipments, and Stocks

Period	Pro- duction	Ship- ments	Stocks*	Shipments (Thousands of squares)				Shipments (Million square feet)	
	(Thousands of barrels)			Asphalt prepared roofing	Asphalt siding	Asphalt insulated brick siding	Asphalt and tar saturated felts	Gypsum board <sup>1</sup>	Gypsum lath <sup>1</sup>
	Portland cement								
1947-49 average.....	200,607	199,306	11,922	61,252	3,365	2,811	17,087	2,478	2,075
Year: 1954 .....	271,277	274,096	16,731	59,132	1,428	2,297	28,991	4,217	2,484
1955 .....	296,829	296,275	17,536	62,582	1,288	2,194	34,629	4,911	2,926
1956 .....	316,465	311,571	22,412	59,265	1,235	2,053	30,152	4,814	2,647
12 months ending:									
January 1957 .....	314,345	309,998	--	59,972	1,255	2,043	30,963		
February 1957 .....	312,582	309,182	--	59,490	1,234	2,044	30,827		
March 1957 .....	311,838	307,486	--	56,675	1,188	1,984	29,779	4,519	2,424
April 1957.....	309,671	303,558	--	57,173	1,204	1,975	30,654		
1956: April .....	26,134	27,261	28,675	3,951	64	151	1,742	} 1,296	796
May .....	29,606	32,087	26,198	5,499	78	202	2,577		
June .....	28,771	32,296	22,679	5,757	95	197	2,830		
July.....	29,498	31,598	20,585	5,800	101	206	2,844	} 1,124	602
August.....	30,055	33,607	17,406	6,166	117	244	2,804		
September .....	28,643	30,175	15,538	5,724	125	210	2,608		
October .....	29,051	31,587	12,996	6,161	148	236	2,839	} 1,055	530
November .....	25,874	22,906	15,975	4,011	124	142	2,315		
December .....	24,429	17,990	22,412	2,227	68	72	1,717		
1957: January .....	19,320	11,927	29,833	3,895	103	84	2,609	} 1,044	496
February .....	17,827	15,274	32,381	4,142	91	117	2,648		
March.....	22,642	20,757	34,267	3,342	74	123	2,246		
April .....	23,967	23,351	34,893	4,449	80	142	2,617		
Percent change									
April, 1956-57 .....	- 8	-14	+22	+13	+25	- 6	+50	--	--
First 4 mos., 1956-57.....	- 7	-10	--	-12	- 8	-44	+ 5	--	--

Source: Table compiled by Department of Commerce (BDCA) from data reported by the Department of Interior (Bureau of Mines), and the Bureau of the Census.

\*As of end of period.

<sup>1</sup>Data reported on quarterly basis.

## CONSTRUCTION REVIEW

Table F-5: Portland Cement: Destination of Shipments, by State

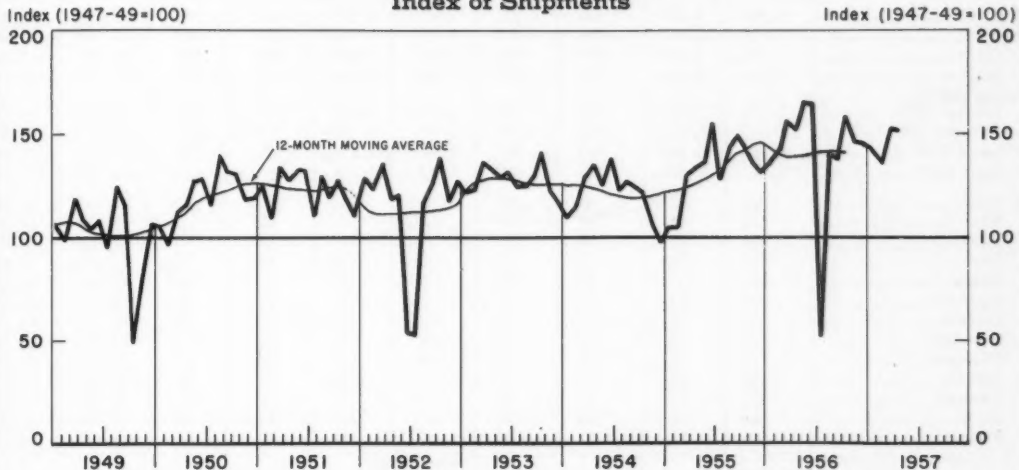
State	(Thousands of barrels)								
	1957			Calendar year			12 months ending--		
	Jan.	Feb.	Mar.	1954	1955	1956	Jan. 1957	Feb. 1957	Mar. 1957
Alabama .....	297	344	366	3,943	3,949	4,935	4,996	5,058	4,920
Arizona .....	183	227	237	2,215	2,337	2,621	2,612	2,651	2,660
Arkansas .....	53	88	124	1,894	2,519	1,841	1,828	1,836	1,780
California .....	2,097	2,310	2,588	28,528	31,553	35,854	35,758	35,364	34,501
Colorado .....	149	229	281	3,285	3,486	3,703	3,659	3,738	3,753
Connecticut .....	138	227	407	3,258	3,380	4,325	4,335	4,371	4,560
Delaware .....	21	45	84	910	1,097	1,086	1,062	1,048	1,064
District of Columbia .....	58	79	115	1,324	1,395	1,327	1,327	1,310	1,336
Florida .....	860	814	850	8,354	8,997	9,499	9,663	9,759	9,829
Georgia .....	257	343	338	4,441	5,198	5,381	5,289	5,247	5,138
Idaho .....	24	26	68	1,215	923	1,074	1,061	1,059	1,061
Illinois .....	281	633	997	14,973	14,670	16,719	16,463	16,423	16,245
Indiana .....	145	292	481	6,724	8,073	9,181	9,047	9,020	8,855
Iowa .....	56	109	196	5,863	5,883	6,774	6,748	6,730	6,615
Kansas .....	137	279	341	6,576	7,248	6,963	6,859	6,796	6,530
Kentucky .....	71	133	197	3,026	3,636	3,509	3,482	3,476	3,410
Louisiana .....	615	555	604	6,292	7,347	8,303	8,232	8,195	8,177
Maine .....	16	18	44	857	961	978	974	967	987
Maryland .....	219	309	449	4,447	4,882	5,764	5,747	5,729	5,780
Massachusetts .....	118	248	460	4,180	5,239	5,848	5,769	5,736	5,917
Michigan .....	289	416	611	13,076	13,991	16,215	15,999	15,844	15,706
Minnesota .....	97	135	228	5,500	5,838	5,515	5,505	5,404	5,268
Mississippi .....	105	129	141	1,732	1,972	1,977	1,984	1,993	1,955
Missouri .....	146	348	498	7,556	7,824	7,646	7,580	7,592	7,441
Montana .....	28	33	62	1,019	951	1,405	1,408	1,415	1,423
Nebraska .....	53	97	137	3,724	3,485	3,352	3,322	3,313	3,250
Nevada .....	28	34	55	842	737	616	597	589	586
New Hampshire .....	19	26	55	827	1,147	926	929	932	961
New Jersey .....	329	470	751	9,164	9,337	9,428	9,394	9,354	9,524
New Mexico .....	143	148	162	2,111	1,996	2,086	2,095	2,124	2,117
New York .....	525	769	1,455	20,290	19,399	20,400	20,294	20,251	20,697
North Carolina .....	282	278	346	4,009	4,414	4,384	4,447	4,443	4,409
North Dakota .....	11	17	32	1,161	1,150	1,294	1,288	1,263	1,221
Ohio .....	420	653	993	16,003	17,320	17,554	17,429	17,394	17,383
Oklahoma .....	186	298	391	4,364	4,785	4,815	4,790	4,787	4,721
Oregon .....	135	118	148	2,081	2,398	2,565	2,601	2,624	2,600
Pennsylvania .....	478	643	1,092	15,108	16,077	15,445	15,444	15,456	15,753
Rhode Island .....	15	33	68	685	822	819	814	807	841
South Carolina .....	132	151	161	1,993	2,461	2,359	2,345	2,330	2,270
South Dakota .....	22	35	56	1,116	1,221	1,374	1,376	1,377	1,378
Tennessee .....	156	226	324	4,683	5,088	4,843	4,804	4,776	4,688
Texas .....	1,317	1,460	1,607	19,081	20,781	20,953	20,942	20,909	20,462
Utah .....	78	76	132	1,508	1,835	2,010	2,004	2,029	2,015
Vermont .....	6	8	22	242	294	334	334	336	348
Virginia .....	253	299	489	4,474	4,801	5,419	5,424	5,397	5,450
Washington .....	140	201	331	5,684	5,656	4,677	4,637	4,655	4,621
West Virginia .....	67	99	157	2,379	2,053	1,937	1,953	1,965	2,004
Wisconsin .....	135	187	295	5,840	5,977	6,768	6,698	6,630	6,575
Wyoming .....	23	26	39	585	578	655	650	654	651

Source: Table compiled by Department of Commerce from data reported by Department of Interior (Bureau of Mines).

Chart 12.

# Iron and Steel Products

## Index of Shipments



SOURCE: DEPARTMENT OF COMMERCE.

CONSTRUCTION REVIEW C.D. 57-10-L

Table F-6: Iron and Steel Products: Shipments, Bookings, and Backlog

(Thousands of tons)

Period	Shipments									Ship- ments	Book- ings	Back- log <sup>1</sup>
	Line pipe	Concrete reinforc- ing bars	Gal- vanized sheets	Nails	Piling	Rails	Cast-iron pipe		Rigid steel con- duit			
							Pres- sure	Soil				
1947-49 average .....	1, 975	1, 523	1, 669	797	309	2, 167	1, 075	604	226	2, 248	2, 105	--
Year: 1954 .....	2, 595	1, 751	2, 363	567	388	1, 196	1, 376	744	227	3, 136	2, 510	743
1955 .....	3, 083	2, 163	2, 865	651	391	1, 233	1, 682	869	280	2, 981	3, 693	1, 029
1956 .....	3, 377	2, 518	2, 958	559	433	1, 300	1, 745	817	359	3, 205	4, 012	1, 313
12 months ending:												
January 1957.....	3, 464	2, 560	2, 925	551	444	1, 302	1, 715	815	364	3, 216	3, 905	--
February 1957.....	3, 480	2, 621	2, 857	537	463	1, 305	1, 671	799	365	3, 209	3, 840	--
March 1957 .....	3, 551	2, 644	2, 773	523	478	1, 306	1, 647	784	369	3, 207	3, 763	--
April 1957 .....	3, 628	2, 632	2, 705	513	501	1, 313	1, 624	777	360	3, 231	3, 744	--
1956: April.....	304	228	267	50	33	129	152	70	31	290	379	1, 107
May .....	367	230	273	56	37	114	172	79	35	306	358	1, 224
June .....	332	275	279	72	41	106	170	74	46	285	337	1, 193
July.....	(2)	(2)	(2)	(2)	(2)	(2)	145	66	36	165	288	1, 227
August .....	2286	2238	2276	254	233	267	180	80	28	213	268	1, 191
September.....	241	234	257	55	45	128	151	66	24	241	246	1, 226
October.....	333	250	279	52	47	131	171	71	27	288	291	1, 239
November .....	322	250	255	36	47	118	116	60	27	276	339	1, 267
December .....	331	240	239	29	49	131	92	54	27	298	404	1, 313
1957: January .....	361	224	236	42	41	133	101	57	27	262	298	1, 332
February .....	304	235	205	35	51	117	89	48	28	278	266	1, 321
March .....	370	240	207	42	54	132	108	59	33	305	289	1, 289
April .....	381	216	199	40	56	136	129	63	22	314	360	1, 311
Percent change												
April, 1956-57 .....	+25	- 5	-25	-18	+73	+ 5	-15	-10	-30	+ 8	- 5	+18
First 4 mos., 1956-57 .....	+22	+14	-23	-22	+51	+ 3	-22	-15	+ 2	+ 2	-18	--

Source: Table compiled by the Department of Commerce (BDSA) from data reported by the American Iron and Steel Institute, the National Electric Manufacturers Association, the American Institute of Steel Construction, and the Bureau of the Census. <sup>1</sup> Scheduled for fabrication in the next 4 months. <sup>2</sup> July data not available separately. The figures given here for August 1956 were reported as July-August totals by the American Iron and Steel Institute because the steel industry was shut down by work stoppages in effect during July.



## CONSTRUCTION REVIEW

Table F-7: Clay Construction Products: Production and Shipments

Period	Brick, common and face (Million brick)		Structural clay tile (Thousand tons)		Vitrified clay sewer pipe (Thousand tons)		Hollow facing tile (Million brick equivalent)		Glazed & unglazed floor & wall tile (Thousand square feet)	
	Production	Shipments	Production	Shipments	Production	Shipments	Production	Shipments	Production	Shipments
1947-49 average .....	5,504	5,324	1,286	1,231	1,451	1,375	357	341	104,800	101,088
Year: 1954 .....	6,720	6,657	981	908	1,763	1,703	481	464	177,988	176,253
1955 .....	7,148	7,010	839	835	1,925	1,880	493	482	187,991	187,828
1956 .....	7,319	6,695	773	674	1,962	1,856	531	494	201,372	186,124
12 months ending:										
January 1957 .....	7,192	6,574	758	666	1,974	1,843	526	486	197,177	183,476
February 1957 .....	7,057	6,490	745	659	1,965	1,800	519	480	193,241	179,638
March 1957 .....	6,914	6,403	735	656	1,946	1,774	505	469	187,849	176,902
April 1957 .....	6,822	6,301	721	645	1,982	1,785	495	461	183,995	175,278
1956: April .....	627	625	66	59	117	128	49	45	17,371	16,289
May .....	672	661	65	61	127	137	47	43	18,681	17,065
June .....	646	632	60	59	164	183	44	43	18,093	16,092
July .....	648	619	65	57	168	178	48	44	16,428	15,913
August .....	685	641	69	63	191	187	45	44	17,446	16,834
September .....	603	571	65	56	174	169	43	39	15,472	14,607
October .....	647	601	64	61	192	187	44	43	17,543	15,475
November .....	587	517	64	52	180	143	39	36	15,507	14,350
December .....	492	397	55	46	164	109	38	31	13,350	11,408
1957: January .....	438	314	54	46	167	108	38	34	13,332	13,324
February .....	401	371	50	44	148	112	36	33	11,845	11,643
March .....	468	455	58	52	154	133	34	34	12,781	13,902
April .....	535	523	52	48	153	139	39	37	13,517	14,665
Percent change										
April, 1956-57 .....	-15	-16	-21	-19	+31	+9	-20	-18	-22	-10
First 4 mos., 1956-57 .....	-21	-19	-20	-13	+3	-13	-19	-20	-25	-17

Source: Table compiled by Department of Commerce (BDISA) from data reported by the Bureau of the Census.

Table F-8: Clay Construction Products: Production and Shipments, by Census Region <sup>1</sup>

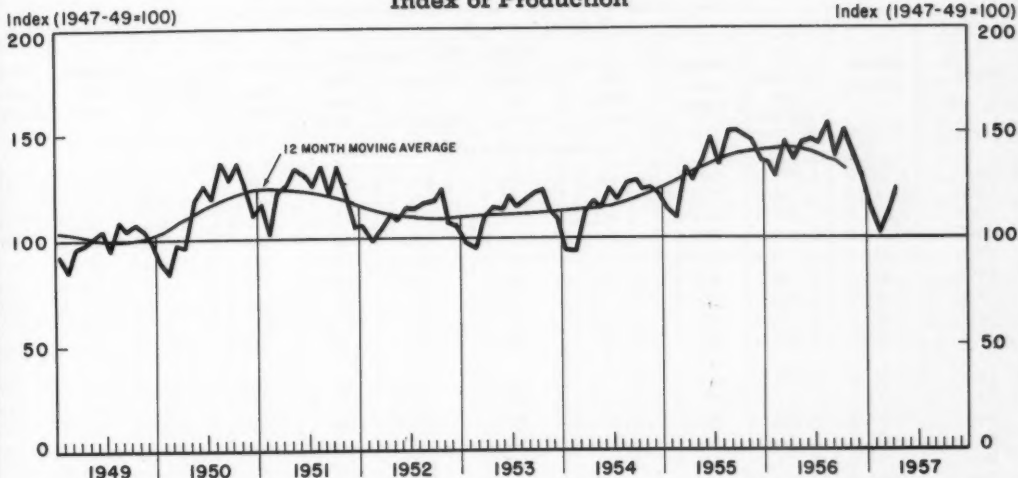
Census region	PRODUCTION				SHIPMENTS			
	April 1957		First 4 mos., 1957		April 1957		First 4 mos., 1957	
	Quantity	Percent change from Apr. 1956	Quantity	Percent change, 1956-57	Quantity	Percent change from Apr. 1956	Quantity	Percent change, 1956-57
Brick, common and face (thousands)								
U. S. TOTAL .....	534,682	-15	1,840,930	-21	523,085	-16	1,662,625	-19
New England .....	11,842	+5	37,262	-9	12,375	+7	40,407	+10
Middle Atlantic .....	93,352	-11	300,573	-16	91,032	-7	246,766	-15
East North Central .....	119,009	-13	395,964	-25	103,152	-32	324,385	-32
West North Central .....	30,024	-14	92,734	-21	24,801	-22	80,173	-16
South Atlantic .....	130,531	-16	459,529	-22	135,716	-12	424,457	-19
East South Central .....	52,963	-10	193,112	-17	55,542	+1	182,786	-10
West South Central .....	56,470	-28	223,603	-27	52,670	-23	198,811	-16
Mountain .....	19,714	-16	82,642	-11	19,865	-16	77,145	-10
Pacific .....	20,777	-18	55,511	-30	27,932	-7	87,695	-19
Structural clay tile (tons)								
U. S. TOTAL .....	52,258	-21	214,414	-20	47,677	-19	190,282	-13
Middle Atlantic .....	5,661	-8	21,675	-20	5,394	-5	18,482	(2)
East North Central .....	2,543	-45	14,006	-40	2,991	-45	12,973	-38
West North Central .....	9,165	-17	22,838	-42	8,219	+9	29,818	+14
South Atlantic .....	13,807	-6	64,374	+47	13,581	+9	57,125	+13
East South Central .....	1,522	-61	12,413	-23	1,649	-59	11,930	-23
West South Central .....	17,924	-22	73,418	-33	14,112	-31	54,517	-31
Mountain & Pacific .....	1,636	-33	5,690	-30	1,731	-40	5,437	-35
Vitrified clay sewer pipe (tons)								
U. S. TOTAL .....	153,240	+31	622,207	+3	139,420	+9	492,301	-13
Middle Atlantic .....	18,423	+104	69,563	+20	14,763	+27	41,333	-9
East North Central .....	57,925	+99	245,419	+5	51,062	+45	182,488	-17
West North Central .....	15,856	+1	64,367	-2	15,046	-14	44,683	-20
South Atlantic .....	15,258	(2)	60,253	+16	13,020	-11	48,722	-17
E. & W. South Central .....	21,695	-4	85,743	-9	17,624	-25	76,703	-12
Mountain .....	3,503	-3	14,979	-3	3,680	-15	12,608	-10
Pacific .....	20,580	-6	81,883	-2	24,225	+15	85,764	+4

Source: Table compiled by Department of Commerce (BDISA) from data reported by the Bureau of the Census. <sup>1</sup> Composition of regions, and nonfarm population distribution by region, are shown below table A-2. <sup>2</sup> Change of less than one-half of 1 percent.

Chart 13.

## Clay Construction Products

## Index of Production



SOURCE: DEPARTMENT OF COMMERCE

CONSTRUCTION REVIEW C.D.57-10-Q

Table F-9: Heating and Plumbing Equipment: Shipments and Stocks

Period	Gas water heaters (Thousands of units)		C. I. convectors and radiators (Thousand square feet)		Warm air furnaces (Thousands of units)		Floor and wall furnaces (Thousands of units)		Residential oil burners <sup>1</sup> (Thousands of units)
	Shipments	Stocks*	Shipments	Stocks*	Shipments	Stocks*	Shipments	Stocks*	
1947-49 average .....	1,818	67	50,980	4,377	794	69	552	44	541
Year: 1954 .....	2,445	103	28,941	5,434	1,035	130	610	74	516
1955 .....	2,633	108	28,518	4,834	1,405	191	615	70	650
1956 .....	2,666	90	27,259	3,878	1,265	192	469	68	456
12 months ending:									
January 1957 .....	2,652	--	26,953	--	1,254	--	466	--	454
February 1957 .....	2,608	--	26,514	--	1,242	--	468	--	452
March 1957 .....	2,575	--	26,515	--	1,232	--	461	--	451
April 1957 .....	2,578	--	26,338	--	1,221	--	458	--	450
1956: April .....	230	102	1,900	6,082	85	263	32	91	31
May .....	231	107	1,577	6,912	94	275	34	93	32
June .....	237	114	1,618	7,519	104	267	35	86	39
July .....	227	92	1,959	6,626	112	247	39	79	36
August .....	238	88	2,996	5,977	160	221	48	76	50
September .....	217	99	3,089	5,277	155	203	54	65	56
October .....	226	90	3,719	4,263	133	198	60	60	62
November .....	182	82	2,589	4,074	100	189	43	62	38
December .....	153	90	1,756	3,878	71	192	28	68	24
1957: January .....	210	76	1,712	4,139	76	195	30	67	30
February .....	202	78	1,797	4,362	67	207	31	60	27
March .....	222	62	1,803	4,750	75	214	27	63	26
April .....	233	59	1,723	4,887	74	228	29	61	30
Percent change									
April, 1956-57 .....	+ 1	-42	- 9	-20	-13	-13	- 7	-33	- 5
First 4 mos., 1956-57 .....	- 9	--	-12	--	-13	--	- 8	--	- 6

Source: Table compiled by Department of Commerce (BDSA) from data reported by the Bureau of the Census.

\* As of end of

<sup>1</sup> Sold separately.

(NOTE: Table F-10, Imports and Exports of Selected Construction Materials, is shown quarterly in the February, May, August, and November issues.)

# Part G--Employment

NOTE: In this issue, tables G-1, G-2, G-5, and G-6 include revisions, beginning with 1955 data, that result from adjustments to first-quarter 1956 benchmarks.

Table G-1: Contract Construction: Employment by Type of Contractor

Period	All contractors	Building contractors							Nonbuilding contractors		
		All building contractors	General contractors	Special trades contractors					All non-building	Highway and street	Other non-building
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
NUMBER OF EMPLOYEES (in thousands)											
Year: 1948.....	2,169.0	1,753.0	807.0	946.0	238.2	124.9	123.2	459.8	416.0	172.1	243.8
1949.....	2,165.0	1,736.0	779.0	957.0	241.7	123.4	122.1	469.5	428.0	178.1	250.3
1950.....	2,333.0	1,885.0	844.0	1,041.0	263.1	130.8	123.4	524.0	448.0	183.0	265.2
1951.....	2,603.0	2,109.0	957.6	1,151.7	286.9	155.7	140.5	568.7	493.0	201.3	291.9
1952.....	2,634.0	2,119.0	948.3	1,170.8	287.7	156.5	155.7	570.9	514.0	209.4	305.0
1953.....	2,622.0	2,109.0	934.0	1,175.1	288.9	148.1	159.7	578.4	513.0	214.9	297.8
1954.....	2,593.0	2,090.0	885.7	1,204.0	295.7	143.8	164.4	600.1	503.0	217.4	285.6
1955.....	2,759.0	2,243.0	922.6	1,320.8	317.0	162.3	168.4	673.1	516.0	232.4	284.0
1956.....	2,993.0	2,387.0	995.1	1,391.8	334.0	179.5	198.1	680.2	606.0	263.3	342.6
1955: Jan.....	2,362.0	1,970.0	799.3	1,170.9	295.1	126.8	162.4	586.6	392.0	152.6	239.1
Feb.....	2,317.0	1,935.0	779.2	1,155.4	290.2	127.5	160.2	577.5	382.0	147.4	235.0
Mar.....	2,433.0	2,029.0	831.5	1,197.3	293.4	135.9	161.1	606.9	404.0	161.9	242.0
Apr.....	2,621.0	2,156.0	884.5	1,271.8	302.6	153.3	161.4	654.5	465.0	204.0	260.6
May.....	2,799.0	2,273.0	931.9	1,341.2	311.8	168.1	164.2	697.1	526.0	244.6	280.9
June.....	2,936.0	2,367.0	980.1	1,386.7	318.8	181.6	168.2	718.1	569.0	272.0	297.4
July.....	3,027.0	2,429.0	1,018.6	1,410.3	327.1	185.3	170.9	727.0	598.0	287.5	310.2
Aug.....	3,066.0	2,458.0	1,029.2	1,428.7	337.2	187.7	172.0	731.8	608.0	292.4	315.8
Sept.....	3,049.0	2,438.0	1,004.8	1,433.0	341.9	183.5	175.0	732.6	611.0	293.1	318.1
Oct.....	2,971.0	2,376.0	974.2	1,401.5	338.2	177.0	176.5	709.8	595.0	278.0	317.4
Nov.....	2,857.0	2,298.0	945.4	1,352.6	328.4	167.8	175.5	680.9	559.0	252.0	306.5
Dec.....	2,681.0	2,192.0	892.4	1,300.0	319.0	153.0	173.3	654.7	489.0	203.1	285.5
1956: Jan.....	2,491.0	2,060.0	826.4	1,233.8	308.7	133.9	170.5	620.7	431.0	170.3	260.8
Feb.....	2,480.0	2,047.0	817.2	1,229.4	306.7	134.9	168.7	619.1	433.0	168.7	263.9
Mar.....	2,551.0	2,086.0	842.6	1,243.1	309.6	142.5	168.6	622.4	465.0	187.6	277.5
Apr.....	2,757.0	2,220.0	916.5	1,303.3	311.6	161.1	171.9	658.7	537.0	234.8	301.7
May.....	2,970.0	2,342.0	972.2	1,369.5	323.5	179.2	179.9	686.9	628.0	283.5	344.7
June.....	3,237.0	2,528.0	1,076.4	1,451.8	342.1	195.7	195.3	718.7	709.0	320.3	388.9
July.....	3,256.0	2,551.0	1,087.8	1,463.2	346.4	202.3	205.8	708.7	705.0	323.9	381.1
Aug.....	3,361.0	2,639.0	1,130.0	1,509.3	351.8	217.8	213.8	725.9	722.0	329.1	392.9
Sept.....	3,342.0	2,627.0	1,116.5	1,510.9	355.2	214.0	221.2	720.5	715.0	324.2	391.2
Oct.....	3,296.0	2,598.0	1,099.1	1,498.7	355.9	203.8	226.4	712.6	698.0	309.7	388.5
Nov.....	3,174.0	2,527.0	1,054.7	1,472.5	351.1	192.0	226.4	703.0	647.0	274.1	372.8
Dec.....	2,997.0	2,417.0	1,001.6	1,415.5	345.7	176.4	228.7	644.7	580.0	233.3	346.9
1957: Jan.....	2,667.0	2,165.0	885.7	1,279.5	335.1	151.5	223.2	569.7	502.0	191.5	310.4
Feb.....	2,673.0	2,177.0	878.2	1,298.5	331.5	148.9	221.0	597.1	496.0	184.9	310.6
Mar.....	2,756.0	2,242.0	898.7	1,343.3	331.8	159.0	219.5	633.0	514.0	199.9	314.1
Apr.....	2,916.0	2,341.0	950.6	1,389.9	331.7	174.9	219.0	664.3	575.0	237.5	337.9
May.....	3,066.0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Percent change											
Mar.-Apr., 1957	+5.8	+4.4	+5.8	+3.5	(2)	+10.0	-0.2	+4.9	+11.9	+18.8	+7.6
Apr., 1956-57 ....	+5.8	+5.5	+3.7	+6.6	+6.5	+ 8.6	+27.4	+ .9	+ 7.1	+ 1.1	+12.0
May, 1956-57 ....	+3.2	--	--	--	--	--	--	--	--	--	--

Source: Department of Labor.

<sup>1</sup> Not yet available.

<sup>2</sup> Change of less than one-tenth of 1 percent.

Table G-2: Contract Construction: Number of Employees and Indexes of Employment (Seasonally Adjusted)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
NUMBER OF EMPLOYEES (in thousands, seasonally adjusted)													
1948.....	2,120	2,015	2,065	2,105	2,136	2,184	2,199	2,212	2,220	2,229	2,249	2,251	2,169
1949.....	2,222	2,171	2,146	2,128	2,124	2,130	2,157	2,176	2,197	2,192	2,190	2,141	2,165
1950.....	2,119	2,101	2,105	2,173	2,236	2,337	2,405	2,451	2,473	2,502	2,517	2,471	2,333
1951.....	2,526	2,521	2,569	2,593	2,596	2,613	2,633	2,641	2,630	2,653	2,606	2,620	2,603
1952.....	2,599	2,624	2,588	2,586	2,597	2,645	2,658	2,672	2,682	2,648	2,650	2,632	2,634
1953.....	2,647	2,669	2,653	2,638	2,613	2,598	2,588	2,596	2,612	2,632	2,623	2,626	2,622
1954.....	2,533	2,583	2,600	2,614	2,603	2,599	2,591	2,594	2,586	2,584	2,618	2,615	2,593
1955.....	2,624	2,618	2,703	2,759	2,813	2,823	2,829	2,813	2,810	2,777	2,760	2,750	2,759
1956.....	2,768	2,802	2,834	2,902	2,985	3,113	3,043	3,083	3,080	3,080	3,067	3,074	2,993
1957.....	2,963	3,020	3,062	3,069	3,081								
INDEXES (1947-49=100) OF EMPLOYMENT (seasonally adjusted) <sup>1</sup>													
1948.....	100.7	95.7	98.1	100.0	101.5	103.8	104.5	105.1	105.5	105.9	106.8	106.9	103.0
1949.....	105.6	103.1	101.9	101.1	100.9	101.2	102.5	103.4	104.4	104.1	104.0	101.7	102.9
1950.....	100.7	99.8	100.0	103.2	106.2	111.0	114.3	116.4	117.5	118.9	119.6	117.4	110.8
1951.....	120.0	119.8	122.0	123.2	123.3	124.1	125.1	125.5	124.9	126.0	123.8	124.5	123.7
1952.....	123.5	124.7	122.9	122.9	123.4	125.7	126.3	126.9	127.4	125.8	125.9	125.0	125.1
1953.....	125.7	126.8	126.0	125.3	124.1	123.4	122.9	123.3	124.1	125.0	124.6	124.8	124.6
1954.....	120.3	122.7	123.5	124.2	123.7	123.5	123.1	123.2	122.9	122.8	124.4	124.2	123.2
1955.....	124.7	124.4	128.4	131.1	133.6	134.1	134.4	133.6	133.5	131.9	131.1	130.6	131.1
1956.....	131.5	133.1	134.6	137.9	141.8	147.9	144.6	146.5	146.3	146.3	145.7	146.0	142.2
1957.....	140.8	143.5	145.5	145.8	146.4								

Source: Department of Labor.  
Federal Reserve Board.

<sup>1</sup> Indexes for months before January 1953 are based on seasonally adjusted employment data derived by the

## EMPLOYMENT AND EARNINGS

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## CONSTRUCTION REVIEW

Table G-3: Contract Construction: Employment, by State

State	Number of employees (in thousands)											Percent change, Apr. 1956-57
	1956				1957				1954	1955	1956	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Apr.	Apr.	Apr.	
Alabama .....	41.9	42.1	41.9	41.6	41.2	41.2	41.1	41.5	30.2	32.2	37.0	+12
Arizona .....	21.1	21.2	20.7	21.1	20.0	20.1	20.0	19.3	18.6	19.9	19.2	+1
Arkansas .....	17.2	16.8	15.6	14.7	13.3	13.5	14.3	15.0	14.2	16.4	15.3	-2
California .....	299.5	297.2	292.3	287.3	271.3	272.2	268.7	272.4	235.5	262.4	279.2	-2
Colorado .....	36.2	36.1	33.9	31.6	29.7	28.0	27.5	25.9	24.7	28.8	31.0	-16
Connecticut <sup>1</sup> .....	53.1	53.0	52.4	49.7	42.3	42.8	43.5	45.7	40.0	41.8	44.7	+2
Delaware .....	19.3	17.9	17.1	15.7	12.9	11.9	11.7	12.6	9.2	10.4	19.3	-35
District of Columbia ..	18.2	18.5	18.1	17.2	16.7	16.9	17.3	18.2	16.8	17.0	17.0	+7
Florida .....	115.0	115.8	118.4	116.4	113.0	109.3	107.9	107.9	79.1	90.0	102.6	+5
Georgia .....	56.2	56.4	54.7	53.0	50.0	50.1	50.7	54.2	46.9	50.1	52.9	+2
Idaho .....	10.4	9.6	8.4	8.1	7.1	6.6	7.1	8.0	7.1	7.8	8.5	-6
Illinois .....	203.3	204.2	197.4	185.9	167.2	173.1	181.6	193.4	154.7	161.9	178.9	+8
Indiana .....	83.2	78.0	73.1	68.1	57.1	58.5	61.7	62.6	53.9	61.2	74.3	-16
Iowa .....	43.9	43.9	39.3	34.4	29.9	30.1	31.6	34.6	29.7	31.4	36.0	-4
Kansas .....	40.8	38.5	36.4	33.6	29.6	30.4	32.3	33.0	35.8	37.9	39.8	-17
Kentucky <sup>2</sup> .....	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana .....	61.6	63.4	65.3	67.7	67.1	65.1	66.8	69.0	53.3	45.4	55.9	+23
Maine .....	15.2	15.3	14.6	13.1	10.7	10.0	9.8	10.6	11.6	11.4	10.2	+4
Maryland .....	77.0	76.1	73.0	69.3	60.2	60.6	63.0	56.8	56.5	63.4	70.7	-20
Massachusetts .....	91.6	90.1	87.9	79.4	66.5	65.8	68.7	78.9	69.0	73.5	75.7	+4
Michigan <sup>3</sup> .....	136.2	133.5	125.0	111.7	101.3	102.0	103.7	106.2	109.2	110.0	110.2	-4
Minnesota .....	66.2	64.2	53.6	46.3	40.6	40.8	40.8	43.2	43.3	45.8	47.0	-8
Mississippi .....	17.4	16.2	15.7	15.7	14.8	13.9	13.7	14.4	15.5	15.7	16.1	-11
Missouri .....	76.2	74.8	73.8	69.8	63.6	65.6	68.2	67.1	63.4	73.7	72.1	-7
Montana .....	15.4	14.5	12.6	10.2	8.7	8.4	8.7	10.6	8.3	9.4	10.4	+2
Nebraska .....	23.6	23.2	21.3	18.7	16.4	16.8	18.2	19.1	20.4	21.1	21.7	-12
Nevada .....	8.0	7.5	7.0	7.2	6.7	6.4	6.7	6.8	8.4	9.0	7.6	-11
New Hampshire .....	10.5	10.3	9.6	8.8	7.1	6.8	7.0	8.1	7.6	9.4	8.5	-5
New Jersey .....	114.9	113.9	112.2	107.6	94.7	92.8	98.7	107.1	97.4	96.8	101.3	+6
New Mexico .....	15.3	16.1	16.1	16.0	14.8	14.5	15.3	16.1	13.2	14.5	15.1	+7
New York .....	273.6	272.7	263.8	248.3	221.4	221.6	234.3	249.7	225.3	227.5	234.7	+6
North Carolina .....	59.5	59.0	58.3	57.5	53.4	50.9	51.6	52.7	47.7	51.2	56.9	-7
North Dakota .....	12.9	12.5	10.3	7.4	6.1	5.6	5.7	7.9	8.5	6.4	6.9	+14
Ohio .....	177.3	177.3	172.7	159.5	140.6	147.3	154.3	159.6	151.6	155.8	151.0	+6
Oklahoma .....	38.0	36.9	36.6	35.1	33.0	34.1	34.8	35.2	30.4	33.2	34.3	+3
Oregon .....	29.2	28.0	25.3	23.0	21.2	21.3	20.9	22.2	21.0	20.1	22.5	-1
Pennsylvania <sup>4</sup> .....	200.8	196.8	189.3	171.9	145.4	147.2	156.0	168.3	167.8	175.7	175.8	-4
Rhode Island .....	18.6	17.7	17.8	16.2	13.5	14.7	16.2	19.1	14.7	17.0	17.3	+10
South Carolina .....	29.4	28.3	28.1	27.1	26.3	26.8	27.5	28.7	38.0	29.1	28.9	-1
South Dakota .....	12.9	12.6	10.6	8.3	7.0	6.7	7.2	8.7	8.4	9.1	8.9	-2
Tennessee .....	47.1	44.9	42.5	40.4	37.3	37.6	38.5	40.0	50.9	45.8	43.0	-7
Texas .....	169.7	169.2	168.4	166.0	162.5	163.8	163.4	161.4	140.1	159.4	157.8	+2
Utah .....	18.2	17.6	16.6	13.7	13.1	12.8	13.6	14.5	9.9	13.1	14.8	-2
Vermont .....	5.5	5.4	5.0	4.4	3.5	3.5	3.6	4.0	3.7	3.6	3.8	+5
Virginia .....	74.2	73.1	72.4	70.4	68.7	70.1	72.9	78.0	54.2	59.6	66.6	+17
Washington .....	50.1	49.7	45.7	42.6	40.0	37.5	40.2	43.4	48.8	45.8	41.3	+5
West Virginia .....	25.3	25.6	24.7	22.9	20.0	21.2	23.3	23.9	19.1	17.4	20.6	+16
Wisconsin .....	66.3	64.1	60.6	55.0	49.5	50.2	50.0	52.4	45.0	51.5	51.7	+1
Wyoming .....	9.5	9.5	7.4	6.1	5.2	5.1	5.4	5.9	5.4	5.0	5.7	+4

Source: Department of Labor.

<sup>1</sup> Includes a small number of employees in mining.<sup>2</sup> Not available.<sup>3</sup> Data revised fromJanuary 1955. <sup>4</sup> Data revised from January 1954.

NOTE: Revised statistics for months not shown here are available upon request.



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Table G-4: Contract Construction: Employment in Selected Areas

Area	Number of employees (in thousands)											Percent change, Apr. 1956-57
	1956				1957				1954	1955	1956	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Apr.	Apr.	Apr.	
Albany-Schenectady-Troy, N. Y.	7.9	8.4	8.3	8.1	6.7	6.8	6.8	7.7	6.9	6.0	6.2	+24
Albuquerque, N. Mex.	4.6	4.8	4.4	4.4	4.4	4.5	4.6	5.0	4.6	4.7	4.9	+2
Atlanta, Ga. <sup>1</sup>	19.8	19.9	18.8	17.8	16.9	17.1	17.4	19.1	15.3	17.7	19.6	-3
Baltimore, Md.	47.3	47.2	45.8	43.6	39.4	39.7	41.2	34.2	37.3	39.9	43.5	-21
Baton Rouge, La. <sup>2</sup>	6.6	6.8	7.0	7.1	7.4	7.4	7.3	7.6	5.4	5.1	6.3	+21
Binghamton, N. Y.	3.4	3.2	3.0	2.3	2.0	1.9	2.0	2.3	2.4	2.7	2.6	-12
Birmingham, Ala.	13.3	13.7	13.5	13.4	12.9	12.9	13.0	13.7	9.6	9.2	11.8	+16
Boise, Idaho	2.2	2.0	1.9	1.8	1.6	1.5	1.5	1.5	1.5	1.5	1.8	-17
Boston, Mass.	52.5	52.3	51.2	48.1	38.2	38.4	41.2	46.2	39.5	42.1	41.9	+10
Bridgeport, Conn. <sup>3</sup>	6.6	6.4	6.2	5.8	5.2	5.1	5.5	5.9	4.9	5.4	5.8	+2
Buffalo, N. Y.	24.9	24.6	23.9	20.4	18.1	18.6	19.3	20.4	17.7	18.4	18.8	+9
Casper, Wyo.	1.5	1.5	1.4	1.3	1.1	1.2	1.2	1.2	1.1	1.0	1.4	-14
Charleston, S. C.	3.6	3.8	3.8	3.8	3.6	3.6	3.6	3.5	3.6	2.9	3.3	+6
Charleston, W. Va.	5.3	5.4	5.1	4.6	4.9	4.9	5.3	5.6	6.2	4.1	3.9	+44
Charlotte, N. C.	9.1	9.1	9.3	8.9	8.4	7.9	8.0	8.3	6.5	7.1	8.9	-7
Chattanooga, Tenn.	3.7	3.7	3.6	3.4	3.0	3.3	3.1	3.1	3.9	4.5	3.9	-21
Chicago, Ill.	140.3	140.5	136.1	131.3	119.7	122.1	125.8	128.3	103.2	111.1	128.1	(4)
Denver, Colo.	22.3	22.2	21.0	20.1	18.6	18.5	18.2	17.2	15.9	18.1	20.9	-18
Des Moines, Iowa	6.0	5.6	5.1	4.6	4.2	4.1	4.7	4.9	5.0	4.8	5.2	-6
Detroit, Mich. <sup>2</sup>	75.5	74.4	71.1	62.2	57.7	58.4	59.3	61.2	62.9	66.0	62.7	-2
Duluth, Minn.	2.6	2.9	2.8	2.5	2.2	2.4	2.6	2.5	1.8	1.7	2.0	+25
Evansville, Ind. <sup>5</sup>	4.5	4.3	4.3	4.0	3.8	3.9	4.0	4.1	3.1	4.1	3.9	+5
Fargo, N. D.	2.7	2.6	2.2	1.8	1.7	1.5	1.6	1.7	1.2	1.6	1.7	0
Fort Wayne, Ind.	3.8	3.5	3.4	3.2	2.7	2.7	2.9	2.8	3.0	3.3	3.7	-24
Great Falls, Mont.	2.3	2.3	1.8	1.3	1.1	1.1	1.2	1.7	1.2	1.4	1.6	+6
Harrisburg, Pa.	9.7	9.4	9.0	8.1	6.7	7.0	8.0	8.2	6.0	7.7	7.7	+6
Hartford, Conn. <sup>3</sup>	11.4	11.2	11.0	10.6	9.4	9.1	9.2	9.9	8.9	8.9	9.7	+2
Indianapolis, Ind.	14.9	14.7	14.5	13.6	12.7	12.2	12.7	12.9	11.9	12.0	12.3	+5
Jackson, Miss.	4.1	4.0	3.8	3.6	3.6	3.5	3.5	3.8	(6)	4.3	4.3	-12
Jacksonville, Fla.	9.5	9.6	9.6	9.5	9.4	9.2	9.2	8.9	10.2	9.2	8.8	+1
Kansas City, Mo.	19.9	19.7	19.3	18.4	17.3	18.2	17.9	17.2	22.0	21.2	19.7	-13
Knoxville, Tenn.	7.3	7.7	7.5	7.3	7.2	6.9	7.0	6.7	12.6	11.5	5.8	+16
Lewiston, Maine	1.3	1.3	1.2	1.1	1.0	.9	.9	1.0	1.0	1.1	1.1	-9
Little Rock-N. Little Rock, Ark.	5.6	5.3	5.0	4.4	3.7	3.4	3.6	3.8	4.4	5.5	5.6	-32
Los Angeles, Calif.	135.8	133.4	130.3	128.8	123.2	124.9	125.5	122.5	113.2	126.9	129.8	-6
Louisville, Ky.	16.5	16.1	14.3	13.4	12.2	12.5	13.1	13.2	13.9	13.6	14.3	-8
Manchester, N. H.	2.2	2.2	2.1	2.0	1.7	1.6	1.6	1.9	1.7	1.8	1.7	+12
Memphis, Tenn.	9.3	8.6	8.3	8.2	7.4	7.5	7.4	7.9	9.9	10.2	9.3	-15
Miami, Fla.	27.0	26.3	26.4	26.7	24.5	22.9	22.9	23.5	20.2	23.9	22.7	+4
Milwaukee, Wis.	25.0	24.5	23.8	22.0	20.2	20.4	20.1	20.9	17.0	19.5	20.7	+1
Minneapolis-St. Paul, Minn.	32.5	32.4	28.9	26.2	22.9	23.4	23.5	26.2	22.7	25.0	27.9	-6
Mobile, Ala.	5.1	5.1	5.0	5.1	4.9	4.8	4.9	4.9	4.3	4.8	5.0	-2
Nashville, Tenn.	7.6	7.7	7.5	6.5	6.0	6.0	6.3	6.6	6.8	6.5	7.1	-7
New Bedford, Mass.	1.5	1.6	1.6	1.3	1.1	1.2	1.1	1.2	1.3	1.7	1.4	-14
New Britain, Conn. <sup>3</sup>	1.6	1.5	1.5	1.4	1.2	1.2	1.3	1.4	1.2	1.3	1.4	0
New Haven, Conn. <sup>3</sup>	8.2	8.1	8.0	7.7	7.2	7.2	7.3	7.8	5.5	6.3	7.3	+7
New Orleans, La.	16.4	16.7	16.8	16.5	16.4	20.9	20.3	20.6	21.6	14.9	15.3	+35
New York-Northeastern N. Jersey...	238.7	234.4	228.3	220.7	199.8	194.9	207.3	220.8	206.0	209.7	214.3	+3
Newark-Jersey City, N. J.	30.3	29.8	28.8	27.9	25.0	23.8	24.6	26.9	28.4	28.7	27.7	-3
Paterson, N. J.	26.1	25.3	24.8	24.5	22.4	21.9	22.7	23.7	20.5	21.3	22.0	+8
Perth Amboy, N. J.	10.3	9.5	9.4	8.9	7.6	6.8	7.6	7.9	6.0	6.2	7.4	+7
Nassau-Suffolk Counties, N.Y.	34.3	33.5	32.4	29.1	22.6	22.0	25.0	27.0	28.8	30.9	30.7	-12
New York, N. Y.	114.3	114.1	111.2	110.2	104.4	104.8	111.2	116.3	105.9	103.6	108.0	+8
Westchester County, N. Y.	20.9	19.7	19.2	17.7	15.0	14.5	14.9	16.9	14.9	17.0	17.0	-1

See footnotes at end of table.

## CONSTRUCTION REVIEW

Table G-4: Contract Construction: Employment in Selected Areas--Continued

Area	Number of employees (in thousands)											Percent change, Apr. 1956-57
	1956				1957				1954	1955	1956	
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Apr.	Apr.	Apr.	
Norfolk-Portsmouth, Va.	13.2	13.2	13.4	12.9	12.4	12.6	12.8	13.9	10.6	10.9	11.2	+24
Oklahoma City, Okla.	11.1	10.7	10.4	9.8	9.3	9.5	9.7	9.7	8.8	10.5	10.4	-7
Omaha, Nebr.	9.9	10.0	9.4	8.2	7.2	7.2	7.6	7.9	8.6	8.0	8.7	-9
Peoria, Ill. <sup>2</sup>	5.4	5.5	5.1	4.5	3.7	4.3	4.7	4.7	4.6	4.6	5.0	-6
Phoenix, Ariz.	10.9	11.0	10.9	11.1	10.7	10.7	10.7	10.0	9.6	10.8	9.8	+2
Pittsburgh, Pa.	51.1	52.5	51.4	49.9	42.1	44.5	47.2	50.1	32.4	40.8	45.3	+11
Portland, Maine	4.4	4.5	4.2	3.9	3.3	3.2	3.3	3.3	2.9	3.1	3.2	+3
Portland, Oreg.	15.9	15.4	14.2	13.2	12.4	12.6	12.6	13.5	11.4	12.0	13.3	+2
Providence, R. I.	16.5	15.7	15.8	14.4	12.0	13.1	14.3	(6)	13.0	15.0	15.3	--
Racine, Wis.	2.4	2.2	2.1	2.0	1.8	1.8	2.0	2.1	1.6	1.9	2.0	+5
Reno, Nev.	2.5	2.4	2.2	2.3	2.1	2.2	2.3	2.4	2.0	2.3	2.2	+9
Richmond, Va.	12.3	12.2	12.0	11.4	11.0	11.1	11.6	12.0	9.4	10.6	11.2	+7
Rochester, N. Y.	11.4	10.8	10.5	9.6	8.4	8.2	8.5	9.4	8.2	9.1	8.8	+7
Rockford, Ill. <sup>2 3</sup>	4.7	4.6	4.3	4.0	3.5	3.5	3.5	3.9	3.1	3.2	4.3	-9
Sacramento, Calif.	10.3	10.2	9.9	9.4	9.0	8.8	8.1	9.1	7.6	8.3	9.0	+1
St. Louis, Mo.	44.8	43.4	41.5	40.4	36.3	36.8	39.4	39.5	38.8	42.5	42.5	-7
Salt Lake City, Utah	9.6	9.5	8.5	8.0	7.0	7.2	7.4	8.1	5.8	8.2	8.8	-8
San Diego, Calif.	14.4	14.3	14.2	14.6	14.2	14.5	14.4	14.0	11.7	12.8	13.6	+3
San Francisco-Oakland, Calif.	64.5	64.3	62.8	60.2	56.4	54.9	53.5	55.1	52.9	57.1	62.2	-11
San Jose, Calif.	11.6	11.3	11.4	10.5	9.8	9.4	9.1	9.8	8.5	10.0	10.8	-9
Savannah, Ga.	4.1	4.3	3.9	3.8	3.5	3.6	3.7	4.0	3.1	3.6	3.6	+11
Seattle, Wash.	17.4	16.6	15.6	14.9	14.2	14.0	14.8	15.9	12.0	14.1	14.2	+12
Sioux Falls, S. D.	2.0	2.0	1.7	1.3	1.0	1.0	1.0	1.3	(6)	1.7	1.6	-19
South Bend, Ind.	3.8	3.7	3.5	2.8	2.6	2.6	2.7	2.9	3.0	3.3	3.2	-9
Spokane, Wash.	5.9	5.8	4.7	4.1	3.5	3.1	3.5	3.9	4.5	4.4	4.3	-9
Springfield-Holyoke, Mass.	8.4	8.4	8.4	7.2	6.2	5.6	6.1	6.7	5.4	6.5	7.1	-6
Stamford, Conn. <sup>3</sup>	4.6	4.5	4.4	4.3	4.1	4.1	4.1	4.2	3.3	3.8	4.2	0
Syracuse, N. Y.	8.0	7.8	7.7	7.0	5.3	5.9	5.8	6.0	6.4	6.3	5.6	+7
Tacoma, Wash.	4.3	4.3	4.3	3.8	3.6	3.4	3.5	3.9	3.4	3.7	3.7	+5
Tampa-St. Petersburg, Fla.	16.5	16.7	17.1	17.2	17.2	17.7	18.0	17.6	11.9	13.8	16.0	+10
Topeka, Kans.	4.2	4.0	3.8	3.4	3.0	3.0	3.3	3.5	2.2	2.8	3.8	-8
Trenton, N. J. <sup>2</sup>	4.0	4.1	3.9	3.8	3.3	3.6	3.7	3.9	4.1	3.4	3.4	+15
Tucson, Ariz.	4.9	4.7	4.6	4.6	4.1	4.1	3.9	3.9	3.7	4.3	4.5	-13
Tulsa, Okla.	10.2	10.1	10.1	9.7	9.0	9.3	9.0	9.1	8.0	8.9	8.8	+3
Utica-Rome, N. Y.	3.3	3.6	3.6	3.0	2.4	2.4	2.5	3.0	2.8	2.8	2.7	+11
Washington, D. C.	44.4	44.4	43.1	40.2	37.7	38.1	39.4	41.1	36.5	41.6	42.2	-3
Waterbury, Conn. <sup>3</sup>	2.4	2.3	2.3	2.2	1.9	1.8	1.8	2.0	1.8	1.9	2.0	0
Wheeling-Staubenville, W. Va.	4.9	5.1	5.2	5.1	4.4	4.8	5.2	5.6	4.8	3.7	4.6	+22
Wichita, Kans.	8.4	8.2	7.8	7.2	6.7	6.7	7.1	7.1	6.4	7.7	8.1	-12
Wilmington, Del.	17.2	16.1	15.1	13.9	11.4	10.5	10.4	11.1	(6)	8.3	17.3	-36
Worcester, Mass.	4.8	5.1	5.1	4.3	3.9	3.8	4.0	4.2	3.8	3.9	3.8	+11

Source: Department of Labor.

<sup>1</sup> Data from January 1956 not comparable with previous periods because area was redefined (and data correspondingly revised) to include not only Cobb, DeKalb, and Fulton Cos., but also Clayton Co.<sup>2</sup> Data revised from January 1955. Revised statistics for months not shown here are available upon request.<sup>3</sup> Includes a small number of employees in mining.<sup>4</sup> Change of less than one-half of 1 percent.<sup>5</sup> Data from January 1955 not comparable with previous periods because area was redefined (and data correspondingly revised) to include not only Vanderburgh Co., Ind., but also Henderson Co., Ky.<sup>6</sup> Not available.

Table G-5: Contract Construction: Indexes of Aggregate Weekly Man-Hours

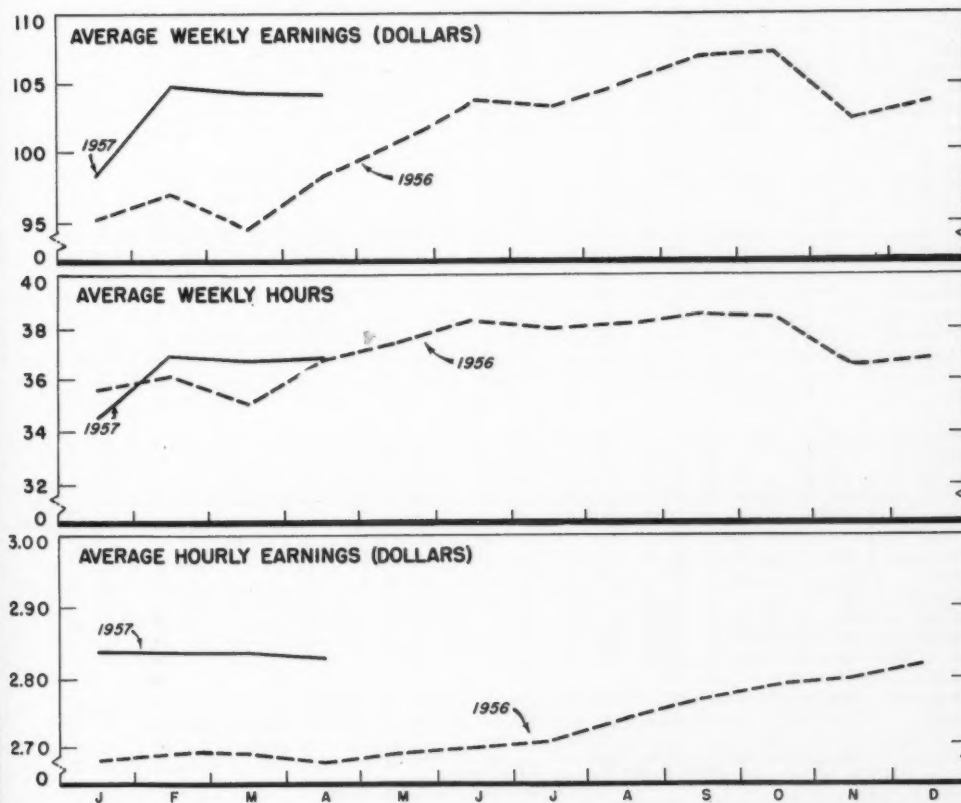
(1947-49=100)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1948.....	89.6	81.3	86.7	95.0	102.2	111.9	115.1	117.3	116.2	113.3	106.6	105.4	103.4
1949.....	94.2	88.9	89.2	95.0	103.1	106.8	110.5	114.2	111.5	111.4	104.4	94.9	102.0
1950.....	84.6	79.5	83.7	95.8	106.1	116.7	122.1	129.5	126.1	128.9	123.9	112.7	109.1
1951.....	106.4	99.3	105.4	116.9	126.4	131.8	137.7	141.1	138.5	139.8	124.2	121.6	124.1
1952.....	111.1	112.3	108.3	117.5	125.4	136.8	138.9	143.2	144.0	139.9	128.2	123.9	127.5
1953.....	109.1	108.7	109.1	115.8	122.6	130.4	132.0	137.2	131.7	136.7	126.7	117.2	123.1
1954.....	95.5	102.8	106.4	113.5	120.3	128.0	131.4	134.0	128.6	128.6	123.3	114.4	118.9
1955.....	101.4	98.6	108.4	115.8	129.8	137.0	144.0	144.3	146.6	138.3	125.6	121.1	125.9
1956.....	108.1	108.5	109.2	124.0	137.4	154.3	154.6	161.1	160.7	157.7	144.2	135.9	138.0
1957.....	112.0	119.8	123.0	131.8									

Source: Department of Labor.

Chart 14

## Hours and Earnings of Workers In Contract Construction



SOURCE: DEPARTMENT OF LABOR

CONSTRUCTION REVIEW C. D. 57-10-0

## CONSTRUCTION REVIEW

Table G-6: Contract Construction: Hours and Gross Earnings of Construction Workers

Period	All construction	Building construction							Nonbuilding construction		
		All building contractors	General contractors	Special trades contractors					All non-building	Highway and street	Other non-building
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
AVERAGE WEEKLY EARNINGS											
Year: 1948 .....	\$68.25	\$68.85	\$64.64	\$73.87	\$76.83	\$69.77	\$83.01	\$69.65	\$66.61	\$62.41	\$68.67
1949 .....	70.81	70.95	67.16	75.70	78.60	70.75	86.57	71.39	70.44	65.65	73.66
1950 .....	73.73	73.73	68.56	77.77	81.72	71.26	89.16	74.71	73.46	69.17	76.31
1951 .....	81.49	81.47	75.03	87.32	91.34	78.76	102.26	83.62	80.78	74.62	85.26
1952 .....	87.85	88.01	82.78	91.99	94.92	82.72	110.30	88.43	86.72	80.26	91.35
1953 .....	91.61	91.76	87.75	94.79	98.30	87.10	111.61	91.04	90.27	85.28	93.85
1954 .....	93.98	94.12	89.41	97.38	102.71	90.39	112.71	93.19	92.86	86.88	97.36
1955 .....	95.94	96.29	90.22	100.83	106.40	94.38	116.52	96.21	95.11	91.27	98.50
1956 .....	101.83	101.92	95.04	107.16	112.31	100.10	125.61	102.39	101.59	97.63	104.94
1954: Jan.....	87.12	87.46	82.13	91.46	99.96	82.36	111.07	83.21	83.88	71.69	91.02
Feb. ....	92.85	93.24	88.94	96.30	101.30	87.28	112.42	90.90	91.54	81.37	97.20
Mar. ....	93.24	94.28	90.41	97.11	101.68	88.58	112.42	91.87	90.12	80.98	95.92
Apr. ....	92.87	93.55	89.55	96.65	101.41	89.27	110.98	93.10	89.60	82.53	94.71
May ....	94.50	94.43	89.67	98.36	101.95	89.78	113.59	94.68	93.79	88.97	97.93
June ....	95.38	95.09	90.04	99.06	103.41	92.04	113.39	95.89	96.37	91.81	100.28
July.....	95.38	94.83	89.55	99.43	103.14	92.39	112.40	96.15	97.29	95.26	99.39
Aug. ....	96.14	95.94	91.51	99.53	103.52	92.31	113.88	96.10	96.79	93.09	100.77
Sept. ....	93.84	94.06	89.00	98.10	102.92	92.57	110.08	94.08	92.57	88.75	96.33
Oct. ....	95.49	95.89	91.62	99.19	103.63	92.75	115.05	94.87	93.73	86.62	100.53
Nov. ....	93.95	94.15	89.61	97.02	100.10	90.37	112.18	93.90	93.90	88.94	98.55
Dec. ....	94.28	95.04	90.83	98.28	107.20	91.12	113.30	91.77	89.47	80.51	96.08
1955: Jan. ....	91.69	92.66	88.55	95.74	105.64	86.72	113.00	88.78	85.01	76.70	90.16
Feb. ....	91.17	91.34	85.59	95.55	103.40	90.05	111.25	89.24	88.16	78.79	94.11
Mar. ....	93.81	94.32	89.14	98.19	103.40	92.38	113.10	93.37	91.48	83.21	97.22
Apr. ....	92.26	93.10	87.40	97.10	103.22	90.25	112.81	92.92	89.39	81.92	95.37
May ....	96.12	96.52	90.27	100.74	105.26	94.87	114.17	97.55	94.30	90.03	97.86
June ....	96.63	96.89	90.14	101.38	105.64	95.39	115.35	98.36	96.17	93.93	98.55
July.....	98.68	98.95	92.00	103.97	108.39	97.02	118.31	100.64	99.36	97.22	101.18
Aug. ....	98.02	97.99	92.23	102.03	107.34	96.72	118.60	97.73	99.25	96.75	101.15
Sept. ....	100.87	100.61	93.61	105.28	109.80	99.25	120.90	101.28	102.29	102.13	102.75
Oct. ....	98.36	98.28	91.55	103.13	108.96	97.30	121.30	97.54	99.36	96.90	101.40
Nov. ....	94.08	94.04	88.24	98.91	105.28	91.58	117.43	92.89	92.64	89.21	95.76
Dec. ....	97.89	98.46	92.11	103.93	109.42	96.26	122.00	97.23	95.20	87.47	101.12
1956: Jan. ....	95.68	96.17	88.75	101.39	109.16	94.24	120.26	94.58	92.79	85.19	98.43
Feb. ....	97.11	97.63	90.30	102.67	107.82	94.92	122.36	96.88	94.43	86.14	99.85
Mar. ....	94.69	95.43	87.98	100.74	108.58	95.26	120.12	93.01	91.88	84.90	96.38
Apr. ....	98.36	99.00	92.20	103.82	108.00	97.57	120.74	100.04	94.86	88.65	100.10
May ....	100.61	100.74	93.96	106.27	111.45	99.62	122.22	101.44	99.31	94.16	103.86
June ....	103.41	103.42	96.42	108.75	113.00	101.24	124.66	104.80	104.66	102.49	106.75
July.....	103.25	103.23	96.52	108.25	113.58	100.04	124.03	103.94	105.58	102.70	107.68
Aug. ....	104.94	104.53	98.05	109.96	114.35	103.10	127.68	105.33	106.42	105.16	107.83
Sept. ....	106.92	106.22	99.06	111.97	115.03	103.24	131.78	107.22	108.28	106.12	110.27
Oct. ....	107.14	106.96	99.80	112.05	115.41	104.11	130.87	107.67	108.12	106.52	109.75
Nov. ....	102.48	102.75	96.21	108.00	112.57	98.36	124.97	103.08	100.84	95.41	105.30
Dec. ....	103.78	104.91	96.48	111.14	117.56	100.74	129.82	104.73	99.96	90.94	106.23
1957: Jan. ....	98.55	99.57	89.76	106.45	115.67	97.28	127.65	95.93	94.86	83.90	101.75
Feb. ....	104.80	105.63	98.19	111.33	116.89	99.57	130.75	104.25	101.38	93.09	106.50
Mar.....	104.23	104.76	95.93	110.96	116.97	102.31	131.26	103.49	100.47	91.77	106.35
Apr.....	104.14	104.98	96.75	110.90	116.66	102.26	129.48	105.32	100.61	93.77	105.54
Percent change, April 1956 to 1957											
	+ 5.9	+ 6.0	+ 4.9	+ 6.8	+ 8.0	+ 4.8	+ 7.2	+ 5.3	+ 6.1	+ 5.8	+ 5.4

## CONSTRUCTION REVIEW

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Table G-6: Contract Construction: Hours and Gross Earnings of Construction Workers--Continued

Period	All construction	Building construction							Nonbuilding construction		
		All building contractors	General contractors	Special trades contractors					All non-building	Highway and street	Other non-building
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
AVERAGE WEEKLY HOURS											
Year: 1948 .....	38.1	37.3	36.6	38.0	39.2	36.3	39.8	36.9	40.6	41.6	40.0
1949 .....	37.8	36.7	36.2	37.2	38.6	35.7	39.2	36.1	40.9	41.5	40.5
1950 .....	37.2	36.3	35.8	36.7	38.4	34.5	38.4	35.8	40.9	41.1	40.7
1951 .....	37.9	37.2	36.6	37.8	39.2	35.8	40.1	37.0	40.8	41.0	40.6
1952 .....	38.7	38.1	38.5	37.7	38.9	35.2	40.7	37.0	41.1	41.8	40.6
1953 .....	37.7	37.0	37.5	36.6	38.1	34.7	39.3	35.7	40.3	41.2	39.6
1954 .....	37.0	36.2	36.2	36.2	37.9	34.5	38.6	35.3	40.2	40.6	39.9
1955 .....	36.9	36.2	35.8	36.4	38.0	34.7	39.1	35.5	40.3	41.3	39.4
1956 .....	37.3	36.4	36.0	36.7	38.2	35.0	39.5	35.8	40.8	41.9	39.9
1954: Jan. ....	34.3	33.9	33.8	34.0	37.3	31.8	38.3	31.4	36.0	34.3	37.0
Feb. ....	36.7	36.0	36.3	35.8	37.8	33.7	38.9	34.3	39.8	39.5	40.0
Mar. ....	37.0	36.4	36.9	36.1	37.8	34.2	38.9	34.8	39.7	39.5	39.8
Apr. ....	37.0	36.4	36.7	36.2	37.7	34.6	38.4	35.4	39.3	39.3	39.3
May ....	37.5	36.6	36.6	36.7	37.9	34.8	38.9	36.0	40.6	41.0	40.3
June ....	38.0	37.0	36.9	37.1	38.3	35.4	39.1	36.6	41.9	42.7	41.1
July ....	38.0	36.9	36.7	37.1	38.2	35.4	38.1	36.7	42.3	43.9	40.9
Aug. ....	38.0	36.9	36.9	37.0	38.2	35.1	39.0	36.4	41.9	42.7	41.3
Sept. ....	36.8	35.9	35.6	36.2	37.7	34.8	37.7	35.5	39.9	40.9	39.0
Oct. ....	37.3	36.6	36.5	36.6	38.1	35.0	39.0	35.8	40.4	40.1	40.7
Nov. ....	36.7	35.8	35.7	35.8	36.8	34.1	37.9	35.3	40.3	40.8	39.9
Dec. ....	36.4	36.0	35.9	36.0	38.7	34.0	38.8	34.5	38.4	37.8	38.9
1955: Jan. ....	35.4	35.1	35.0	35.2	38.0	32.6	38.7	33.5	36.8	36.7	36.8
Feb. ....	35.2	34.6	34.1	35.0	37.6	33.6	38.1	33.3	38.0	37.7	38.1
Mar. ....	36.5	36.0	35.8	36.1	37.6	34.6	38.6	35.1	39.6	40.2	39.2
Apr. ....	35.9	35.4	35.1	35.7	37.4	33.8	38.5	34.8	38.2	38.1	38.3
May ....	37.4	36.7	36.4	36.9	38.0	35.4	38.7	36.4	40.3	41.3	39.3
June ....	37.6	36.7	36.2	37.0	38.0	35.2	39.1	36.7	41.1	42.5	39.9
July ....	38.1	37.2	36.8	37.4	38.3	35.8	39.7	37.0	42.1	43.4	40.8
Aug. ....	37.7	36.7	36.6	36.7	38.2	35.3	39.8	35.8	41.7	43.0	40.3
Sept. ....	38.5	37.4	37.0	37.6	38.8	35.7	39.9	37.1	42.8	44.6	41.1
Oct. ....	37.4	36.4	35.9	36.7	38.5	35.0	39.9	35.6	41.4	42.5	40.4
Nov. ....	35.5	34.7	34.2	35.2	37.2	33.3	38.5	33.9	38.6	39.3	38.0
Dec. ....	36.8	36.2	35.7	36.5	38.8	34.5	40.0	35.1	39.5	39.4	39.5
1956: Jan. ....	35.7	35.1	34.4	35.7	38.3	33.9	39.3	33.9	38.5	38.9	38.3
Feb. ....	36.1	35.5	35.0	35.9	37.7	33.9	39.6	34.6	38.7	38.8	38.7
Mar. ....	35.2	34.7	34.1	35.1	37.7	33.9	39.0	33.1	37.5	37.4	37.5
Apr. ....	36.7	36.0	35.6	36.3	37.5	34.6	39.2	35.6	39.2	39.4	39.1
May ....	37.4	36.5	36.0	36.9	38.3	35.2	39.3	36.1	40.7	41.3	40.1
June ....	38.3	37.2	36.8	37.5	38.7	35.9	39.7	36.9	42.2	43.8	40.9
July ....	38.1	37.0	36.7	37.2	38.5	35.1	39.5	36.6	42.4	43.7	41.1
Aug. ....	38.3	37.2	37.0	37.4	38.5	35.8	39.9	36.7	42.4	44.0	41.0
Sept. ....	38.6	37.4	37.1	37.7	38.6	35.6	40.3	37.1	42.8	44.4	41.3
Oct. ....	38.4	37.4	37.1	37.6	38.6	35.9	39.9	37.0	42.4	44.2	40.8
Nov. ....	36.6	35.8	35.5	36.0	37.4	33.8	38.1	35.3	39.7	40.6	39.0
Dec. ....	36.8	36.3	35.6	36.8	38.8	34.5	39.7	35.5	39.2	39.2	39.2
1957: Jan. ....	34.7	34.1	33.0	34.9	37.8	33.2	38.8	32.3	37.2	36.8	37.4
Feb. ....	36.9	36.3	36.1	36.5	38.2	34.1	39.5	35.1	39.6	40.3	39.3
Mar. ....	36.7	36.0	35.4	36.5	38.1	34.8	39.3	35.2	39.4	39.9	39.1
Apr. ....	36.8	36.2	35.7	36.6	38.0	34.9	39.0	35.7	39.3	39.9	38.8
Percent change, April 1956 to 1957											
	+0.3	+0.6	+0.3	+0.8	+1.3	+0.9	-0.5	+0.3	+0.3	+1.3	-0.8



## CONSTRUCTION REVIEW

Table G-6: Contract Construction: Hours and Gross Earnings of Construction Workers--Continued

Period	All construction	Building construction							Nonbuilding construction		
		All building contractors	General contractors	Special trades contractors					All non-building	Highway and street	Other non-building
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
AVERAGE HOURLY EARNINGS											
Year: 1948.....	\$1.79	\$1.85	\$1.77	\$1.95	\$1.96	\$1.93	\$2.08	\$1.89	\$1.64	\$1.50	\$1.72
1949.....	1.87	1.94	1.86	2.03	2.04	1.98	2.21	1.98	1.72	1.58	1.82
1950.....	1.98	2.03	1.92	2.12	2.13	2.01	2.32	2.09	1.80	1.68	1.88
1951.....	2.15	2.19	2.05	2.31	2.33	2.20	2.55	2.26	1.98	1.82	2.10
1952.....	2.27	2.31	2.15	2.44	2.44	2.35	2.71	2.39	2.11	1.92	2.25
1953.....	2.43	2.48	2.34	2.59	2.58	2.51	2.84	2.55	2.24	2.07	2.37
1954.....	2.54	2.60	2.47	2.69	2.71	2.62	2.92	2.64	2.31	2.14	2.44
1955.....	2.60	2.66	2.52	2.77	2.80	2.72	2.98	2.71	2.36	2.21	2.50
1956.....	2.73	2.80	2.64	2.92	2.94	2.86	3.18	2.86	2.49	2.33	2.63
1954: Jan.....	2.54	2.58	2.43	2.69	2.68	2.59	2.90	2.65	2.33	2.09	2.46
Feb.....	2.53	2.59	2.45	2.69	2.68	2.59	2.89	2.65	2.30	2.06	2.43
Mar.....	2.52	2.59	2.45	2.69	2.69	2.59	2.89	2.64	2.27	2.05	2.41
Apr.....	2.51	2.57	2.44	2.67	2.69	2.58	2.89	2.63	2.28	2.10	2.41
May.....	2.52	2.58	2.45	2.68	2.69	2.58	2.92	2.63	2.31	2.17	2.43
June.....	2.51	2.57	2.44	2.67	2.70	2.60	2.90	2.62	2.30	2.15	2.44
July.....	2.51	2.57	2.44	2.68	2.70	2.61	2.95	2.62	2.30	2.17	2.43
Aug.....	2.53	2.60	2.48	2.69	2.71	2.63	2.92	2.64	2.31	2.18	2.44
Sept.....	2.55	2.62	2.50	2.71	2.73	2.66	2.92	2.65	2.32	2.17	2.47
Oct.....	2.56	2.62	2.51	2.71	2.72	2.65	2.95	2.65	2.32	2.16	2.47
Nov.....	2.56	2.63	2.51	2.71	2.72	2.65	2.96	2.66	2.33	2.18	2.47
Dec.....	2.59	2.64	2.53	2.73	2.77	2.68	2.92	2.66	2.33	2.13	2.47
1955: Jan.....	2.59	2.64	2.53	2.72	2.78	2.66	2.92	2.65	2.31	2.09	2.45
Feb.....	2.59	2.64	2.51	2.73	2.75	2.68	2.92	2.68	2.32	2.09	2.47
Mar.....	2.57	2.62	2.49	2.72	2.75	2.67	2.93	2.66	2.31	2.07	2.48
Apr.....	2.57	2.63	2.49	2.72	2.76	2.67	2.93	2.67	2.34	2.15	2.49
May.....	2.57	2.63	2.48	2.73	2.77	2.68	2.95	2.68	2.34	2.18	2.49
June.....	2.57	2.64	2.49	2.74	2.78	2.71	2.95	2.68	2.34	2.21	2.47
July.....	2.59	2.66	2.50	2.78	2.83	2.71	2.98	2.72	2.36	2.24	2.48
Aug.....	2.60	2.67	2.52	2.78	2.81	2.74	2.98	2.73	2.38	2.25	2.51
Sept.....	2.62	2.69	2.53	2.80	2.83	2.78	3.03	2.73	2.39	2.29	2.50
Oct.....	2.63	2.70	2.55	2.81	2.83	2.78	3.04	2.74	2.40	2.28	2.51
Nov.....	2.65	2.71	2.58	2.81	2.83	2.75	3.05	2.74	2.40	2.27	2.52
Dec.....	2.66	2.72	2.58	2.82	2.82	2.79	3.05	2.77	2.41	2.22	2.56
1956: Jan.....	2.68	2.74	2.58	2.84	2.85	2.78	3.06	2.79	2.41	2.19	2.57
Feb.....	2.69	2.75	2.58	2.86	2.86	2.80	3.09	2.80	2.44	2.22	2.58
Mar.....	2.69	2.75	2.58	2.87	2.88	2.81	3.08	2.81	2.45	2.27	2.57
Apr.....	2.68	2.75	2.59	2.86	2.88	2.82	3.08	2.81	2.42	2.25	2.56
May.....	2.69	2.76	2.61	2.88	2.91	2.83	3.11	2.81	2.44	2.28	2.59
June.....	2.70	2.78	2.62	2.90	2.92	2.82	3.14	2.84	2.48	2.34	2.61
July.....	2.71	2.79	2.63	2.91	2.95	2.85	3.14	2.84	2.49	2.35	2.62
Aug.....	2.74	2.81	2.65	2.94	2.97	2.88	3.20	2.87	2.51	2.39	2.63
Sept.....	2.77	2.84	2.67	2.97	2.98	2.90	3.27	2.89	2.53	2.39	2.67
Oct.....	2.79	2.86	2.69	2.98	2.99	2.90	3.28	2.91	2.55	2.41	2.69
Nov.....	2.80	2.87	2.71	3.00	3.01	2.91	3.28	2.92	2.54	2.35	2.70
Dec.....	2.82	2.89	2.71	3.02	3.03	2.92	3.27	2.95	2.55	2.32	2.71
1957: Jan.....	2.84	2.92	2.72	3.05	3.06	2.93	3.29	2.97	2.55	2.28	2.72
Feb.....	2.84	2.91	2.72	3.05	3.06	2.92	3.31	2.97	2.56	2.31	2.71
Mar.....	2.84	2.91	2.71	3.04	3.07	2.94	3.34	2.94	2.55	2.30	2.72
Apr.....	2.83	2.90	2.71	3.03	3.07	2.93	3.32	2.95	2.56	2.35	2.72
Percent change, April 1956 to 1957											
	+5.6	+5.5	+4.6	+5.9	+6.6	+3.9	+7.8	+5.0	+5.8	+4.4	+6.3

Source: Department of Labor.

## CONSTRUCTION REVIEW

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Table G-7: Registered Apprentices in the Building Trades, by State and Territory, and Trade

State and territory	Number employed as of December 31 <sup>1</sup>			Percent change, 1955-56
	1954	1955	1956 <sup>2</sup>	
<b>Total</b> .....	<b>83,771</b>	<b>101,412</b>	<b>112,619</b>	<b>+11</b>
Alabama .....	1,163	1,226	1,530	+25
Alaska .....	196	274	288	+ 5
Arizona .....	1,086	1,167	1,182	+ 1
Arkansas .....	341	482	615	+28
California .....	10,351	14,227	15,471	+ 9
Colorado .....	838	1,345	1,402	+ 4
Connecticut .....	1,964	2,332	2,721	+17
Delaware .....	146	218	267	+22
District of Columbia .....	892	1,269	1,473	+16
Florida .....	2,383	2,765	2,959	+ 7
Georgia .....	1,714	2,032	2,245	+10
Hawaii .....	297	272	332	+22
Idaho .....	237	287	412	+44
Illinois .....	6,886	7,963	9,916	+25
Indiana .....	1,431	1,693	2,673	+58
Iowa .....	913	961	895	- 7
Kansas .....	561	781	805	+ 3
Kentucky .....	1,086	1,286	1,375	+ 7
Louisiana .....	1,529	1,564	1,496	- 4
Maine .....	186	294	355	+21
Maryland .....	1,195	1,400	1,796	+28
Massachusetts .....	2,093	2,425	2,618	+ 8
Michigan .....	3,588	4,551	5,536	+22
Minnesota .....	2,432	2,847	3,071	+ 8
Mississippi .....	318	384	512	+33
Missouri .....	1,969	2,791	3,212	+15
Montana .....	505	540	504	- 7
Nebraska .....	463	671	824	+23
Nevada .....	289	365	367	+ 1
New Hampshire .....	94	132	165	+25
New Jersey .....	1,930	2,142	2,597	+21
New Mexico .....	427	561	669	+19
New York .....	8,176	8,689	(3)	--
North Carolina .....	1,472	1,820	1,899	+ 4
North Dakota .....	70	130	295	+127
Ohio .....	6,387	7,529	8,041	+ 7
Oklahoma .....	535	909	1,117	+23
Oregon .....	865	1,124	1,216	+ 8
Pennsylvania .....	3,492	3,826	4,008	+ 5
Rhode Island .....	441	501	578	+15
South Carolina .....	764	754	627	-17
South Dakota .....	124	216	285	+32
Tennessee .....	1,816	1,947	2,092	+ 7
Texas .....	3,685	4,969	5,187	+ 4
Utah .....	513	719	834	+16
Vermont .....	92	110	128	+16
Virginia .....	1,237	1,307	1,386	+ 6
Washington .....	1,859	2,293	2,250	- 2
West Virginia .....	409	487	572	+17
Wisconsin .....	2,089	2,598	2,888	+11
Wyoming .....	242	237	244	+ 3

See footnotes at end of table.

## CONSTRUCTION REVIEW

Table G-7: Registered Apprentices in the Building Trades, by State and Territory, and Trade--Continued

State and territory	Number employed as of December 31, selected trades											
	1955						1956 <sup>2</sup>					
	Carpenter	Electrician	Painter and paper-hanger	Plumber and pipe-fitter	Sheet metal worker	Trowel trades <sup>4</sup>	Carpenter	Electrician	Painter and paper-hanger	Plumber and pipe-fitter	Sheet metal worker	Trowel trades <sup>4</sup>
Total .....	26,730	17,126	4,599	21,738	10,712	12,427	26,712	18,679	4,904	22,398	11,841	17,668
Alabama .....	331	203	79	197	146	109	365	224	65	194	157	300
Alaska .....	132	35	15	49	9	2	149	36	18	32	10	2
Arizona .....	452	200	75	150	98	94	394	215	75	163	116	124
Arkansas .....	96	45	36	94	45	33	95	40	41	110	56	96
California .....	5,475	1,437	1,105	2,544	1,616	961	5,184	1,649	1,169	2,621	1,973	1,180
Colorado .....	325	157	48	299	235	157	291	179	63	241	243	166
Connecticut .....	617	274	161	521	259	216	695	332	169	609	295	257
Delaware .....	45	35	21	56	26	26	60	44	16	54	35	47
Dist. of Col. ....	172	184	51	322	78	254	204	201	50	364	98	313
Florida .....	696	864	37	424	280	254	786	901	45	458	293	244
Georgia .....	357	641	37	364	202	176	330	669	35	380	172	400
Hawaii .....	75	77	2	57	50	5	103	112	0	59	42	6
Idaho .....	92	65	23	45	22	25	126	71	36	50	41	71
Illinois .....	1,485	1,409	389	1,886	633	1,710	1,775	1,691	433	1,989	711	2,562
Indiana .....	372	266	89	306	246	360	460	456	104	324	223	976
Iowa .....	308	96	40	214	134	100	281	77	35	199	113	117
Kansas .....	233	77	59	142	81	138	278	77	41	114	81	147
Kentucky .....	237	387	46	381	114	100	232	421	84	365	99	117
Louisiana .....	383	372	55	305	118	195	344	311	74	277	128	221
Maine .....	25	85	1	88	59	14	31	93	2	106	80	27
Maryland .....	263	303	51	338	97	300	349	367	49	391	120	396
Massachusetts ..	485	458	70	717	245	264	508	587	49	726	291	292
Michigan .....	1,199	660	173	819	628	674	1,344	759	209	856	704	1,172
Minnesota .....	647	530	162	598	365	311	656	571	180	632	345	405
Mississippi .....	95	85	0	97	35	37	92	118	0	100	43	130
Missouri .....	825	320	194	472	395	409	752	395	212	464	424	660
Montana .....	221	93	33	95	60	24	173	99	22	97	62	28
Nebraska .....	190	103	18	82	125	106	150	73	31	84	149	267
Nevada .....	131	106	14	40	70	0	119	107	18	51	54	6
New Hampshire ..	41	3	0	70	0	5	43	3	0	79	12	18
New Jersey .....	535	277	27	563	227	378	551	316	36	631	235	638
New Mexico .....	128	195	17	66	32	22	145	183	32	80	51	62
New York .....	2,555	1,438	167	1,722	730	1,438	(3)	(3)	(3)	(3)	(3)	(3)
North Carolina ..	305	500	46	369	257	243	269	535	41	393	293	224
North Dakota .....	40	22	0	44	0	22	64	56	1	62	1	107
Ohio .....	1,576	1,130	236	1,961	851	1,069	1,615	1,139	236	2,011	931	1,364
Oklahoma .....	212	93	15	125	123	87	207	95	30	144	130	195
Oregon .....	206	280	57	173	212	73	182	355	67	198	243	77
Pennsylvania .....	864	564	64	1,356	296	465	729	558	60	1,465	371	503
Rhode Island .....	187	64	21	156	39	22	218	76	25	158	38	30
South Carolina ..	119	216	5	187	77	127	77	205	5	170	54	104
South Dakota .....	75	28	18	44	13	20	88	40	20	43	19	59
Tennessee .....	607	506	79	334	126	147	564	493	100	288	159	311
Texas .....	1,224	933	337	1,134	395	521	1,016	932	322	1,117	427	799
Utah .....	258	100	52	121	98	35	291	134	47	121	115	64
Vermont .....	33	13	2	49	7	3	35	19	3	48	10	9
Virginia .....	158	364	40	313	184	138	162	343	46	288	182	217
Washington .....	876	332	124	317	180	192	812	342	112	340	193	172
West Virginia .....	79	92	15	170	58	27	77	71	15	130	91	147
Wisconsin .....	590	375	188	724	303	318	603	433	210	769	366	352
Wyoming .....	98	34	5	38	33	21	83	38	4	31	32	49

Source: Department of Labor.

<sup>1</sup>Includes data for trades not shown separately.<sup>2</sup>Totals include an estimate for New York.<sup>3</sup>Data not available.<sup>4</sup>Covers brick, stone, and tile workers; cement masons; and plasterers.

# Construction Legislation

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## Appropriation Acts That Provide for Construction and Housing

### Third Supplemental Appropriation Act, 1957. (Public Law 85-58, approved June 21, 1957.)

This law provides funds for the following major item related to construction:

Department of Agriculture. Farmers' Home Administration. \$26,000,000 for direct and insured farm ownership loans for the purchase, enlargement, or development, including farm housing and other building construction, of family type farms, under title I and section 43 of title IV of the Bankhead-Jones Farm Tenant Act, as amended.

Funds requested for initiation of the program of direct flood insurance as authorized by the Federal Flood Insurance Act of 1956 (see Construction Review, Vol. 2, No. 9, September 1956, pp. 52-53) were deleted from this measure as finally enacted.

### Departments of Labor, and Health, Education, and Welfare, and Related Agencies Appropriation Act, 1958. (Public Law 85-67, approved June 29, 1957.)

The major construction items contained in this law are all under Title II--Department of Health, Education, and Welfare, and are as follows:

Public Health Service. (1) \$120,000,000--hospital construction grants, distributed as follows: \$99,000,000 for payments authorized under part C of title VI of the Public Health Service Act (the original Hill-Burton program), and \$21,000,000 under part G (diagnostic and treatment centers, \$6,500,000; chronic disease hospitals, \$6,500,000; rehabilitation facilities, \$4,000,000; and nursing homes, \$4,000,000). (2) \$45,000,000 for grants-in-aid to States, municipalities, or intermunicipal or interstate agencies, for waste treatment works construction under section 6 of the Water Pollution Control Act, as amended. (3) \$30,000,000 for grants-in-aid to non-Federal public and nonprofit institutions for construction of health research facilities, as authorized in Public Law 835, 84th Congress. (4) \$3,096,000 for construction of Indian Health facilities.

Office of Education. \$41,700,000 for additional assistance to local educational agencies for construction of school facilities in areas affected by Federal activities, as authorized by titles III and IV of Public Law 815, 81st Congress, as amended. Of this amount, no more than \$5,000,000 is for title-IV assistance, which applies principally to school districts in or near areas with large Indian populations that have enrolled substantial numbers of children residing on Federal tax-exempt land, but that have not experienced substantial school population growth in recent years.

### Independent Offices Appropriation Act, 1958. (Public Law 85-69, approved June 29, 1957.)

The following major items which relate to construction and housing appear in this law:

Housing and Home Finance Agency. (1) \$95,000,000 for the payment of annual contributions to local public housing authorities for operating low-rent public housing projects; (2) \$5,000,000 for payment to the revolving fund for Federal advances to State and local agencies to assist in the preparation of a reserve of planned public works; and (3) \$1,275,000 for urban renewal planning grants.

General Services Administration. (1) \$65,000,000 for repair, improvement, and equipment of federally owned buildings; (2) \$20,000,000 for site acquisition, preparation of drawings and specifications, and other expenses connected with the lease-purchase program authorized by the Public Buildings Purchase Contract Act of 1954; and (3) \$1,331,100 for payments of principal, interest, and taxes under existing lease-purchase contracts. The Administrator of General Services was authorized to enter into lease-purchase contracts during the fiscal year 1958 for construction of buildings on which the aggregate annual payment for amortization of principal and interest shall not exceed the unused portion of the \$12,000,000 limitation applicable prior to July 1, 1957, under the Independent Offices Appropriation Act, 1957.

Veterans Administration. (1) \$42,500,000 for construction, replacement, rehabilitation, and modernization of veterans hospitals; and (2) \$2,028,000 for major alterations, improvements, and repairs to regional offices, supply depots, and hospital and domiciliary facilities.

National Advisory Committee for Aeronautics. \$35,000,000 for construction and equipment of laboratories and research stations of the Committee, including acquisition costs of not more than 115 acres of land.

Funds Appropriated to the President. \$10,000,000 for the disaster relief program administered for the President by the Civil Defense Administrator.

**Department of the Interior and Related Agencies Appropriation Bill, 1958.** (Public Law 85-77, approved July 1, 1957.)

Major items contained in this law which include construction, are as follows:

Department of the Interior. (1) *National Park Service*, \$31,000,000 for forest highway work authorized under the Federal-Aid Highway Acts of 1954 and 1956; and \$17,400,000 for construction of buildings and utilities under the Mission 66 program to provide essential facilities to meet visitor requirements in the National Parks by 1966; (2) *Bureau of Indian Affairs*, \$17,000,000 for construction of buildings and utilities, including schools, dormitories, quarters for employees, and related facilities, and construction and rehabilitation of Indian irrigation systems; and \$12,000,000 for construction and maintenance of Indian roads and public lands highways authorized under the Federal-Aid Highway Acts of 1954 and 1956; (3) *Office of Territories*, \$6,000,000 for public works construction in Alaska; (4) *Fish and Wildlife Service*, \$5,677,000 for construction and acquisition of buildings and facilities; and (5) *Bureau of Land Management*, \$5,000,000 for construction of access roads on the Oregon and California grant lands.

Department of Agriculture, Forest Service. \$24,336,000 for construction and maintenance of forest roads and trails under sec. 23 of the Federal Highway Act of Nov. 9, 1921, as amended.



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